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Commonwealth of Pennsylvania

Department of Mines



*Anthracite Division*

# **Annual Report**

**1949**

Harrisburg, Pennsylvania

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Commonwealth of Pennsylvania  
Department of Mines



*Anthracite Division*  
**Annual Report**  
1949

Harrisburg, Pennsylvania

Richard Maize  
*Secretary of Mines*

Joseph J. Walsh  
*Deputy Secretary of Mines*

W. Garfield Thomas  
*Deputy Secy. Bituminous Div.*





HON. JAMES H. DUFF  
Governor Commonwealth of Pennsylvania

Department of Mines

April 1, 1950

To His Excellency, James H. Duff, Governor of Pennsylvania

Sir:

In compliance with the Act of April 14, 1903, I submit herewith the report of the Department of Mines for the year ending December 31, 1949, covering in detail the operations in the Anthracite Region of Pennsylvania.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "Richard Maize". The signature is fluid and cursive, with the first name "Richard" written in a larger, more prominent script than the last name "Maize".

Richard Maize,  
Secretary of Mines.



RICHARD MAIZE  
Secretary of Mines

Production, How Shipped, Average Days Worked, Number of Employees, Explosives, Fatal and 60-day Accidents, Man-days  
By Inspection District - 1949

Dist- rict	Production - net tons				Pounds dynamite used	Pounds permis- sible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- ability 60 days or more	Man-days
	: Shipped to market	: Sold to local trade	: Used at colliery for steam and heat	: Total production							
	: railroad	: truck									
1	1,810,955	40,124	263,533	2,117,343	510,048	672,840	228	3443	1	39	784,201
2	1,121,135	84,050	56,646	1,466,995	334,625	175,205	223	2491	-	39	555,284
3	1,347,309	62,550	17,673	1,617,682	9,375	997,070	203	3336	3	29	678,036
5	1,230,926	50,817	137,124	1,459,604	82,500	259,680	228	2936	5	35	670,536
6	1,654,555	218,972	202,320	1,881,921	-	173,038	232	1977	3	17	457,854
7	1,010,575	4,316	62,093	1,131,511	-	1,556,161	216	2539	5	25	547,997
8	1,000,769	68,555	75,275	1,185,918	-	15,815	155	3923	4	26	607,564
9	948,977	163,372	199,048	1,378,596	-	254,374	206	3324	8	37	683,419
10	887,447	31,771	139,445	1,124,331	366,125	362,833	206	2361	3	40	485,925
11	1,107,869	55,681	193,006	1,432,058	21,775	609,728	221	3375	8	36	745,546
12	1,491,132	30,911	244,579	1,858,236	61,850	39,980	226	4291	10	36	970,787
13	1,399,269	785	313,435	1,785,283	-	981,125	215	4304	5	54	925,236
14	1,637,700	108,930	177,920	2,014,735	-	1,049,768	222	4020	9	59	890,623
15	912,598	214,965	120,111	1,256,845	-	1,343,620	217	1965	3	18	426,213
16	1,167,444	119,837	46,768	1,373,670	-	879,075	202	2123	1	27	428,739
17	1,931,476	361,130	98,405	2,413,710	-	3,697,234	228	3927	3	53	896,104
18	1,842,188	185,036	48,963	2,157,096	-	1,499,450	214	4626	3	47	989,479
19	2,010,697	861,168	203,743	3,125,555	-	1,983,513	176	3716	1	36	654,001
20	1,691,284	112,799	240,099	2,088,863	-	3,937,269	196	3431	3	53	673,747
21	928,959	295,999	64,822	1,292,611	-	181,350	214	1611	1	22	345,039
22	2,533,715	175,385	71,738	2,852,322	-	5,370,505	210	4215	6	53	885,673
23	1,615,586	458,311	72,393	2,174,517	-	2,029,375	176	3630	2	34	638,073
24	2,288,816	515,156	141,940	2,953,144	-	1,594,607	198	2427	-	20	505,858
25	2,665,754	194,567	19,539	3,684	-	883,544	190	1241	2	12	235,983
26	1,538,657	172,448	12,559	1,761,205	-	1,056,827	176	2573	1	33	452,584
27	525,719	173,462	50,976	761,519	-	233,880	162	1404	2	10	227,972
35	301,181	4,761,107	3,588,548	1,059,282	1,386,298	30,575,121	207	79209	92	890	16,362,473

Compiled, typed: Ber

Anthracite Production (Deep Mined, Stripping and Bank), Employees and Fatalities, By County

Year 1949

County	Deep Mined	Stripping	Bank	Total production	Employees	Fatal- ities
Carbon	1,261,074	639,900	225,708	2,126,682	4,420	3
Columbia	581,703	652,835	146,194	1,380,732	1,760	1
Dauphin	-	-	61,389	61,389	83	-
Lackawanna	4,920,429	941,683	359,631	6,221,743	11,702	8
Luzerne	12,785,576	2,486,569	717,701	15,989,846	35,040	60
Northumberland	2,693,813	1,215,420	1,291,257	5,200,490	6,009	2
Schuylkill	6,539,707	5,057,259	1,941,228	13,538,194	20,047	18
Sullivan	23,585	-	-	23,585	104	-
Susquehanna	-	87,421	80,036	167,457	44	-
Wayne	-	-	-	-	-	-
	28,805,887	11,081,087	4,823,144	44,710,118	79,209	92

Compiled, typed: Ber

Total Production of Coal, & Production from Strippings & Washeries,  
Employees, Fatalities, Etc.

1870 - 1949

Year	Total production (net tons)	Washery production (net tons)*	Stripping production (net tons)*	Employees	Fatal- ities	Produc- tion per fatality	Fatal- ities per million tons	Number of inspec- tors
	#			#	#	#	#	#
1870	14,172,004			35,600	211	67,166	14.89	5
1871	15,532,252			37,488	210	73,963	13.52	5
1872	15,567,973			44,745	223	69,811	14.32	5
1873	21,001,521			48,199	264	79,551	12.57	5
1874	19,930,240			53,402	231	86,278	11.59	5
1875	23,402,646			69,966	238	98,330	10.17	6
1876	23,440,666			70,474	228	102,810	9.73	6
1877	24,727,213			66,842	194	127,460	7.85	6
1878	20,900,966			63,964	187	111,770	8.95	6
1879	31,036,600			68,847	262	118,460	8.44	6
1880	27,974,532			73,373	202	138,888	7.22	6
1881	34,202,558			76,031	273	125,284	7.98	7
1882	35,057,430			82,200	295	118,839	8.41	6
1883	37,747,369			91,421	323	116,865	8.56	6
1884	36,468,738			101,073	332	109,846	9.10	6
1885	38,232,155			100,320	332	115,157	8.68	7
1886	38,950,932			103,044	279	139,609	7.16	7
1887	42,156,300			106,517	316	133,406	7.50	7
1888	46,635,037			122,218	364	128,118	7.81	8
1889	43,650,768			119,646	397	109,952	9.09	8
1890	44,986,286			119,919	378	119,011	8.40	7
1891	49,701,322			123,308	428	116,125	8.61	8
1892	51,226,978			130,300	418	122,553	8.16	8
1893	52,841,110			138,069	456	115,880	8.63	8
1894	50,966,920	386,960		139,939	446	114,276	8.75	8
1895	56,948,756	686,534		143,705	421	135,270	7.39	8
1896	53,843,250	527,809		150,088	502	107,257	9.32	8
1897	52,581,036	732,743		149,557	423	124,305	8.04	8
1898	52,812,675	697,759		142,420	411	128,498	7.78	8
1899	60,518,331	1,055,426		140,604	461	131,276	7.62	8
1900	57,363,396	1,818,170		143,824	411	139,570	7.16	8
1901	67,094,665	2,009,864		147,651	513	130,789	7.65	8
1902	41,340,935	2,965,792		148,139	300	137,803	7.26	8
1903	75,232,585	4,119,258		151,827	518	145,237	6.89	15
1904	73,594,369	3,440,420		161,330	595	123,688	8.08	15
1905	78,647,020	3,897,688		168,254	644	122,123	8.19	15
1906	72,139,510	4,880,402		166,175	557	129,514	7.72	19
1907	86,056,412	5,630,169		168,774	708	121,549	8.23	20
1908	83,543,243	4,635,923		174,503	678	123,220	8.12	20
1909	80,223,833	5,206,562		171,195	567	141,488	7.07	20
1910	83,683,994	5,412,167		168,175	601	139,241	7.18	20
1911	90,917,176	4,555,457		173,338	699	130,067	7.69	21
1912	84,426,869	4,317,161		175,098	601	140,477	7.12	21
1913	91,626,964	2,934,157		175,310	624	146,838	6.81	21
1914	91,189,641	2,702,537		180,899	600	151,983	6.58	21
1915	89,377,706	3,418,427		177,339	588	152,003	6.58	21
1916	87,680,198	4,432,606		159,169	565	155,186	6.44	25
1917	100,445,299	6,408,277		156,148	581	172,883	5.78	25
1918	99,445,794	7,246,454		148,226	556	178,859	5.59	25
1919	87,838,024	3,616,675		153,780	636	138,110	7.24	25
1920	89,636,036	5,435,697		149,117	490	182,931	5.47	25
1921	90,358,642	1,842,096		161,926	546	165,492	6.04	25
1922	53,910,201	2,525,402		159,880	300	179,701	5.56	25
1923	92,653,641	4,212,001		158,764	515	179,910	5.56	22
1924	87,277,449	1,141,796		162,503	496	175,963	5.64	22



Total Production of Coal, Production from Strippings & Washeries,  
Employees, Fatalities, Etc.

1870 - 1949

Year	Total production (net tons)	Washery production (net tons)*	Stripping production (net tons)*	Employees	Fatal- ities ites	Produc- tion per fatality	Fatal- ities per million tons	Number of inspect- ors
1925	61,334,145	894,187		163,825	401	152,953	6.54	18
1926	83,874,500	1,365,175		168,734	455	184,340	5.42	18
1927	79,367,154	1,841,440		167,648	492	161,315	6.20	25
1928	74,552,312	1,614,863		160,721	447	166,784	6.00	25
1929	72,985,844	878,599		153,422	483	151,109	6.62	25
1930	68,776,559	890,389		151,171	444	154,902	6.46	25
1931	59,115,387	1,468,572	%	138,400	384	153,946	6.50	25
1932	49,501,511	1,062,858	3,545,948	119,480	243	203,710	4.91	21
1933	49,507,577	2,090,996	4,308,811	102,469	232	213,395	4.69	21
1934	56,798,951	1,516,393	4,461,894	106,251	260	218,458	4.58	19
1935	51,359,111	1,876,700	4,962,514	100,539	267	192,356	5.20	17
1936	54,264,016	1,411,988	3,757,678	99,704	241	225,162	4.44	16
1937	51,700,296	1,882,026	5,014,052	99,117	212	243,869	4.10	22
1938	46,269,511	2,031,432	5,080,344	96,998	223	207,487	4.82	20
1939	51,399,707	2,347,269	5,308,049	93,352	210	244,761	4.09	24
1940	51,526,454	2,599,280	6,010,364	90,790	182	283,112	3.53	23
1941	53,942,177	3,689,538	7,855,945	88,849	189	285,408	3.50	22
1942	57,939,629	4,045,970	9,657,307	83,707	225	257,509	3.88	22
1943	60,511,730	7,715,860	8,688,896	79,369	218	277,577	3.60	23
1944	64,112,589	10,527,481	10,925,619	78,145	171	374,927	2.67	24
1945	55,901,235	9,454,205	10,521,174	76,265	137	408,038	2.45	23
1946	61,978,710	9,214,678	12,912,992	80,556	169	366,738	2.73	24
1947	58,227,985	7,076,796	12,691,382	80,730	165	352,897	2.83	24
1948	59,108,810	6,735,688	13,485,837	80,390	131	451,212	2.22	26
1949	44,710,118	4,823,144	11,081,087	79,209	92	485,980	2.06	26

\* Included in total production

# No accurate record previous to 1870

‡ No accurate record previous to 1894

‰ No accurate record previous to 1932

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COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF MINES

Anthracite Division

Year 1949

Tons of Coal Mined, Days Worked, Persons Employed, Killed & Injured, Explosives, Etc.

FIRST DISTRICT

J. F. Munley, Inspector 166 Spruce St., Archbald, Pa.	Operators & Collieries	County	Production - net tons				Total production	Pounds dynamite used	Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	Fatal ability acci- dents 60 days or more	Non-fatal accidents dis- ability 60 days or more
			Shipped to market :		Used at								
			By railroad	By truck	to local trade	colliery for steam and heat							
	A. & F. Coal Co.	Lackawanna	3,386	10,158	-	-	13,544 (a)	875	6,450	10,000	218	13	-
	Alberici Coal Co.	"	335	-	-	-	335 (d)	-	-	50	23	7	-
	Blasi Coal Co.	"	6,226	-	-	-	6,226 (d)	-	100	2,000	225	10	-
	Booth, John, Inc.	"	168,586	-	-	-	168,586 (d)	-	183,950	-	239	70	-
	Botscheller Coal Co.	"	6,877	-	-	-	6,877 (e)	-	-	250	85	8	-
	Burke, Timothy, Inc.	"	47,618	-	-	-	47,618 (d)	-	118,090	-	293	59	-
	DeAngelis Coal Co.	"	170,968	-	20,151	200	191,319 (g)	-	6,825	33,900	212	237	8
	Bolands (B)	"	23,695	-	-	-	23,695 (d)	-	170,000	-	263	37	-
	Deweese Bros.	"	13,675	-	-	-	13,675 (d)	-	125	1,700	190	20	-
	Dweczyk Coal Co.	"	19,500	226	-	-	19,726 (c)	12,548	2,392	26,600	162	39	1
	Eddie & Joe Coal Co.	"	1,374	2,062	-	-	3,436 (f)	-	625	500	242	8	-
	F. & W. Coal Co.	"	2,096	-	-	-	2,096 (d)	-	-	-	11	6	-
	Gasparini Stripping Co.	"	166,026	1,431	-	-	167,457 (h)	-	8,200	3,500	295	44	-
	Gatway Coal Co.	"											
	Forest City (B)	Susquehanna											



FIRST DISTRICT, CONTINUED

Operators & Collieries	County	Production - net tons			Used at : colliery for steam and heat	Total production	Pounds black powder used	Pounds dynamite used	Pounds permis- sible ex- plosives used	Days worked	Empl- oyes	Fatal ability acci- dents	Non-fatal accidents dis- 60 days or more
		: Shipped to market By	: Sold to local trade	: By truck									
Slenska Bros. Stripping (p) Supreme Anth. Co. Breaker (B)	Lacka.	7,025	421	-	-	7,446 (e)	-	-	750	172	5	-	-
Surace, F. L. E. & A. (B)	"	1,657	-	1,572	-	3,229 (q)	-	-	-	23	9	-	-
Tolerico Stripping Co. Stripping	"	1,273	-	3,038	85	4,396 (t)	-	-	-	225	12	-	-
Waddell Coal Co. Waddell (B) (W)	"	44,142	-	-	-	44,142 (r)	-	1,375	-	282	28	-	-
		33,382	-	2,450	264	36,096 (s)	13,050	20,543	42,225	233	64	-	-
Grand total		1,810,955	40,124	263,533	2,731	2,117,343	510,048	672,840	700,225		3443	1	39

(B) Breaker

(W) Washery

(a) Coal prepared at Penbrook breaker

(b) Discontinued operation in February

(c) Coal prepared at Motley & Waddell breakers (1st dist.) & Consagra & Pompey breakers (2nd dist.)

(d) Coal prepared at Powderly breaker, of Hudson Coal Co.

(e) " " " Bolands and E. & A. breakers

(f) " " " Ace breaker, 2nd dist.

(g) Includes 98,473 tons of stripping coal.

(h) Coal prepared at Powderly, Motley, Waddell (1st dist.) & Consagra & Pompey (2nd dist.) & Meadowside (3rd dist.)

(i) Discontinued operation in August.

(j) Includes 1,334 tons stripping coal.

(k) " " " 12,085

Deep mined coal

Stripping " "

Bank

1,427,463 tons

606,615 "

83,265 "

(l) Includes 16,750 tons of stripping coal.

(m) " " " 31,274

(n) " " " 14,018

(o) " " " 14,042

(p) Discontinued operation in September.

(q) Bank coal

(r) Coal prepared at Powderly, Motley, Pompey (2nd) & Meadowside (3rd)

(s) Includes 8,560 tons stripping coal

(t) Stripping coal.

33 Operators in district

36 Operations " (Mines, Strippings, Banks,

Breakers)

24 Mines "

## SECOND DISTRICT

T. L. Wackley, Inspector 1801 N. Wash. Ave., Scranton Operators & Collieries County	SECOND DISTRICT					Pounds permissible explosives used	Days worked	Fatal ability Empl- acci- 60 days or more	
	Production - net tons								
	Shipped to market : By : railroad :	Sold : to : local : trade :	Used at : colliery and heat production :	Pounds black powder used					
	4,426	4,527	2,112	105	6,550	21,650	174	51	2
Ace Coal Co. Ace (F)									
A. F. & L. Coal Co. Mine	2,569	254	-	-	500	2,875	146	9	-
Albanese Coal Co. Mine (b)	757	75	-	-	-	375	59	10	-
A. & R. Coal Co. Mine	7,237	716	-	-	-	8,875	198	12	-
Beggin Coal Co. Mine	1,250	312	-	-	-	1,875	132	5	-
Blue Flame Coal Co. Mine	3,320	586	-	-	1,250	3,625	181	11	-
Burke, Timothy, Inc. Stripping	16,986	11,803	-	-	6,900	-	244	18	-
Butler Stripping Co. Stripping (e)	2,698	1,157	-	-	150	-	83	7	-
C. B. M. Coal Co. Stripping (g)	3,223	4,835	-	-	29,500	-	146	13	-
Consagra Coal Co. Breaker (B)	-	-	-	-	-	-	86	22	1
Costanzo Coal Co. Mine	1,284	550	-	-	50	125	115	7	-
Fabri Coal Co. Mine	6,843	677	-	-	875	10,125	182	13	-
Gasparini Stripping Co. Stripping (i)	732	-	-	-	-	-	12	4	-
G. M. A. Coal Co. Mine	3,517	348	-	-	-	2,350	167	7	-
Gravine Coal Co. Mine	12,463	2,199	-	-	1,250	28,250	224	24	-
G. & S. Coal Co. Mine	6,626	655	-	-	-	7,725	188	14	2
Guiducci Coal Co. Mine	3,225	7,824	-	-	2,150	8,000	220	17	-
Hudson Coal Co. Eddy Creek	513,139	-	99,962	53,313	19,269	276,375	216	1146	12
Lenencelli Coal Co. Mine	1,725	171	-	-	300	900	192	5	-

## SECOND DISTRICT, CONTINUED

Operators & Collieries	County	Production - net tons				Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Fatal accidents 60 days or more
		Shipped to market By railroad	Sold to local trade	Used at colliery for steam and heat	Total production					
M. & C. Coal Co.	Lacka.									
Mine		2,424	240	-	2,664 (a)	-	600	1,750	187	7
McConnell Stripping Co.	"	1,406	603	-	2,009 (1)	-	75	-	70	7
Mid Valley Anthracite Co.	"	-	-	-	-	-	-	-	24	20
Breaker (H)	"	-	-	-	3,094	-	250	-	24	5
Stripping (m)	"	2,320	774	-	3,094	-	250	-	24	5
Total for Co.		2,320	774	-	3,094	-	250	-	24	5
Moosic Mtn. Coal Co.	"	-	-	-	-	-	-	-	122	18
Breaker (H)	"	1,134	-	-	1,134	-	-	-	78	4
Bank	"	4,046	400	-	4,446	-	6,350	-	86	6
Stripping	"	5,180	400	-	5,580	-	6,350	-	28	-
Total for Co.		102,242	-	-	102,242 (n)	-	-	-	163	8
Nay Aug Coal Co.	"	-	-	-	-	-	-	-	173	8
Breaker (H)	"	2,702	-	-	2,702 (o)	-	200	800	216	563
Ondrick Coal Co.	"	159,899	-	90,822	253,799 (p)	-	-	235,850	256	15
Pennsylvania Coal Co.	"	60,787	-	-	60,787 (q)±	-	53,036	-	229	216
Underwood (H)	"	97,988	11,554	5,968	115,660 (r)	37,775	40,575	146,300	81	6
Perry Construction Co.	"	1,166	1,749	-	2,915 (h)	-	400	-	197	12
Stripping	"	7,426	734	-	8,160 (a)	-	225	5,325	120	8
Pompey Coal Co.	"	1,829	323	-	2,152 (c)	-	400	500	99	14
Pompey (H)	"	1,499	1,042	-	2,541 (d)	-	-	1,525	226	17
Popple & Scatina Co.	"	10,979	7,629	-	18,608 (d)	-	3,800	26,800	21	7
Stripping	"	656	-	-	656 (o)	-	-	-	187	18
Red Creek Mining Co.	"	6,483	641	-	7,124 (a)	-	-	8,000	-	-
Mine										
R. & F. Coal Co.	"									
Mine (s)	"									
Rosetti Coal Co.	"									
Mine	"									
Sobleskie Coal Co.	"									
Mine	"									
Sweeney Bros. Co.	"									
Stripping (g)	"									
Swoyer Coal Co.	"									
Mine	"									

SECOND DISTRICT, CONTINUED

Operators & Collieries	County	Production - net tons			Used at : to colliery : local for steam and heat	Total production :	Pounds black powder used	Pounds dynamite used	Founds permissible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- abled 60 days or more
		: Shipped to market By :	: Sold By :	: By :									
Tetto Coal Co.	Lacka.	2,414	460	-	-	2,874 (u)	-	50	1,225	171	8	-	-
Village Slope Coal Co.	"	51,450	17,150	-	-	68,600 (v)	-	250	101,000	174	110	-	-
V. & L. Coal Co.	"	1,414	269	-	-	1,683 (u)	-	50	2,700	186	7	-	-
Vispi Coal Co.	"	8,851	3,793	-	-	12,644 (w)x	-	200	575	211	12	-	-
Grand total		1,121,135	84,050	198,864	56,646	1,460,695	334,625	175,205	905,475		2491	-	29

(B) Breaker

(a) Coal prepared at Moosic Mtn. breaker	(m) Discontinued operation in March
(b) Discontinued operation in May	(n) Bank coal
(c) Coal prepared at Pompey breaker	(o) Coal prepared at Waddell breaker (1st dist.)
(d) " " Underwood "	(p) Includes 27,109 tons silt, prepared at Central Concentrated breaker (6th)
(e) Discontinued operation in April	(q) Coal prepared at Powderly breaker, (1st dist.)
(f) Coal prepared at Mid Valley breaker	(r) Includes 946 tons bank coal, prepared at Bolands breaker (1st dist.)
(g) Discontinued operation in June	(s) Formerly known as #1 Mine, operated by Vispi Coal Co.
(h) Coal prepared at Ace breaker	(t) Formerly operated by Touch Coal Co.
(i) Discontinued operation in January	(u) Coal prepared at Consagra breaker
(j) Coal prepared at Penbrook (1st district) & Ace breakers.	(v) " " Consagra & Mid Valley (2nd) & Meadowside (3rd)
(k) " " Marvine breaker, 5th district.	(w) " " Ace, Consagra, Pompey, " " Minichello "
(l) " " Penbrook (1st), Ace (2nd), Meadowside & Minichello (3rd).	(x) Includes 6,238 tons stripping and 4,320 tons bank coal
	(y) Mine coal

39 Operators in district

42 Operations " (Mines, Strippings, Banks, Breakers)
27 Mines "

Deep mined coal	-	1,204,311
Stripping "	-	120,633
Bank "	-	135,751



THIRD DISTRICT

W. G. Ward, Inspector 1119 First St., Blakely, Operators & Collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- ability 60 days or more
		Shipped to market :		Used at :									
		By railroad	By truck	Sold to local trade	Used at colliery for steam and heat	Total production :							
Alberigi Coal Co.	Lacka.	1,977	5,932	-	-	7,909 (a)	-	3,000	10,000	185	21	-	-
Bellevue Coal Co. Breaker (B)	"	53,295	-	-	-	53,295 (t)	-	-	-	272	23	-	-
Denchy Coal Co.	"	6,037	-	-	-	6,037 (b)	-	-	4,000	216	12	-	-
Gasparini Excavating Co. Stripping	"	36,298	6,405	-	-	42,703 (c)	-	25,693	-	294	35	-	-
Glen Alden Coal Co. Baker (B)	"	134,443	44,695	-	-	256,870 (u)	9,000	18,175	145,000	208	973	1	11
Keyser Valley Coal Co. Mine	"	11,604	-	-	15	11,619 (d)	-	1,000	10,225	245	46	1	-
Mascelli Coal Co. Mine	"	11,655	-	-	-	11,655 (b)	-	-	7,875	207	19	-	-
Meadowside Coal Co. Meadowside (B)	"	105	37	-	-	142 (u)	-	500	100	148	43	-	-
Stripping	"	10,625	3,808	-	-	14,433	-	2,000	13,900	148	12	-	-
Total for Co.		10,730	3,845	-	-	14,575	-	2,500	14,000	55	-	-	-
Minichello Coal Co. Breaker (B) (c)	"	6,107	-	1,235	-	7,342 (t)	-	-	-	127	21	-	-
Moffat Coal Co.	"	124,887	-	8,163	2,995	136,045 (e)	375	5,625	43,375	207	24	-	2
Cayuga	"	-	-	-	-	-	-	-	-	207	16(p)	-	-
Diamond	"	69,324	-	5,200	1,483	76,007 (f)	-	275	81,000	207	112	-	1
Rockwell	"	584,245	-	78,474	1,846	664,565 (f)	-	53,925	521,775	206	1066	1	19
Storrs	"	331	-	32	5	368 (f)	-	-	-	4	3	-	-
Rockwell Strip.	"	47,998	-	6,447	152	54,597 (f)	-	80,925	1,000	207	21	-	-
Storrs	"	826,785	-	98,316	6,481	931,582	-375	140,750	647,150	1432	1	22	-
Total for Co.		5,220	-	-	-	5,220 (t)	-	-	-	244	22	-	-
May Aug Coal Co. Breaker (B) (q)	"	24,209	-	20,725	56	44,990 (g)	-	3,750	19,720	137	317	-	6
Capouse	"	2,321	-	-	-	2,321 (h)	-	100	1,800	34	27	-	-
Panzitta Coal Co. Mine (r)	"	1,671	-	-	-	1,671 (d)	-	100	800	8	89	-	-
Penn Anthracite Coal Co. Capouse (d) (i)	"	3,779	-	-	-	3,779 (j)	-	-	-	79	8	-	-
P. & M. Coal Co. Stripping (s)	"	-	-	-	-	-	-	-	-	-	-	-	-



THIRD DISTRICT, CONTINUED

Operators & Collieries	County	Production - net tons			Total production :	Pounds black powder used :	Pounds dynamite used :	Pounds permissible explosives used :	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- 60 days or more
		Shipped to market :	Sold :	Used at :								
		By :	By :	to colliery :								
		By railroad :	By truck :	for steam and heat :								
Phonda Coal Co.	Lacka.	83,775	-	-	83,775 (t)	-	-	-	222	25	-	-
Breaker (B)	"	21,760	-	20	21,780 (k)	-	500	32,500	212	26	-	-
Snyder Coal Co.	"	10,137	-	-	10,137 (l)	-	-	-	140	20	-	-
Sproul Construc. Co.	"	1,666	89	-	555 (m)	-	125	1,000	18	9	-	-
Bank (q)	"	6,307	1,201	-	7,508 (m)	-	-	-	66	16	-	-
Throop Mining Co.	"	2,010	383	-	2,393 (m)	-	-	-	38	12	-	-
Bank	"	8,783	1,673	-	10,456	-	125	1,000	-	37	-	-
Stripping	"	34,882	-	-	34,882 (n)	-	13,500	72,000	213	55	-	-
Total for Co.	"	20,390	-	-	20,390 (n)	-	13,900	-	198	23	-	-
Turnpike Coal Co.	"	55,272	-	-	55,272	-	27,400	72,000	-	78	-	-
Mine	"	31,451	-	2,743	34,694 (f)	-	125	31,000	207	50	-	-
Grand total		1,347,309	62,550	190,150	17,673	1,617,682	9,375	223,218	997,070	3336	3	39
(B) Breaker												
(a) Coal prepared at Penbrook (1st) and Meadowside (3rd)					(k) Coal prepared at Underwood breaker (2nd)							
(b) " " Olyphant (1st)					(l) " " Marvinne (5th)							
(c) " " Pompey (2nd)					(m) " " Penbrook (1st), Consagra (2nd), Meadowside							
(d) " " Waddell (1st)					(n) " " and Minichello (3rd)							
(e) " " Baker and Moffat breakers (3rd)					(o) " " Underwood, Consagra & Pompey (2nd) and "							
(f) " " " "					(p) Formerly operated by Supreme Anthracite Co.							
(g) " " Northwest					(q) Maintenance men							
(h) " " of Simpson Coal Co., (1st)					(r) Discontinued operation in April							
(i) Operated by Northwest Coal Co. to December, then by Penn Anth.					(s) " " February							
(j) Coal prepared at No. 9 breaker (6th) and Harry E. breaker (9th)					(t) " " May							
(u) Mine coal					(t) Bank coal							
21 Operators in district					Deep mined coal							
30 Operations "					Stripping "							
17 Mines "					Bank							

FIFTH DISTRICT

T. D. Rees, Inspector R.D. 1, Box 54, Scranton, Pa.	County	Production - net tons				Pounds black powder used	Pounds dynamite used	Pounds permis- sible ex- ploives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- abled 60 days or more
		Shipped to market By railroad	Sold to By truck	Used at to colliery local for steam and heat	Total production							
Operators & Collieries												
Bellevue Coal Co.	Lacka.	24,468	-	-	24,468 (a)	-	-	-	81	8	-	-
Silt Bank #	"	17,871	1,690	241	25,302 (b)	-	1,100	30,800	183	57	-	1
Florine Coal Co. Mine	"	-	-	-	-	-	-	-	135	14	-	-
G. & M. Coal Co. Parkside (E)	"	18,430	-	-	18,430 (c)	-	-	-	108	4	-	-
Gravity Coal Co. Silt Banks	"	9,637	-	268	9,905 (d)	-	-	-	49	7	-	-
Harris & Walsh Bank *	"	22,172	-	1,938	24,110 (e)	-	3,500	47,725	212	52	-	1
Greenwood Mining Co. Mine	"	2,786	-	612	3,398 (e)	-	250	-	54	6	-	-
Stripping	"	24,958	-	2,550	27,508	-	3,750	47,725	-	58	-	1
Total for Co.												
Hudson Coal Co.	"	202,158	-	47,681	15,495	-	17,425	160,750	217	677	-	7
Marvine (E)	"	1,348	169	390	1,926 (b)	-	-	1,650	183	7	-	-
Junior Coray Coal Co. Mine	"	46,347	7,802	10,333	64,919 (n)	-	5,575	44,750	211	250	-	1
Keboe-Berge Coal Co. William A (E)	Luzerne	52,802	8,888	11,772	73,959 (f)	-	-	62,000	210	190	-	1
No. 10 Tunnel	"	6,726	8,907	376	55,963 (f)	-	9,400	66,750	211	123	-	1
Stevens & No. 11	"	12,822	2,158	2,859	17,960 (f)	-	-	38,000	84	16	-	-
Fox Hill Stripping	"	24,709	4,159	5,509	34,610 (f)	-	-	48,400	217	67	-	1
Broadwell	Lacka.	3,713	625	828	5,201 (f)	-	2,000	-	100	7	-	-
" Stripping	"	29,599	4,982	6,599	41,459 (f)	-	54,100	-	222	54	1	-
Mosca	Luzerne	10,025	1,688	2,235	14,042 (f)	-	-	2,500	211	5	-	-
Hunter Stripping	"	5,557	935	1,239	7,783 (f)	-	-	2,000	71	17	-	-
Pittston	"	810	-	-	810 (f)	-	-	-	24	3	-	-
Seneca Bank	"	286,578	37,963	50,281	376,946	-	84,350	264,400	740	1	4	-
Total for Co.												
Lackawanna Mining & Construction Co.	Lacka.	12,564	1,906	3,028	17,675 (g)	-	4,300	-	254	12	-	-
Coray Stripping	"	47,970	6,093	13,884	68,623 (h)	-	25,330	-	266	29	-	-
Sibley	"	60,534	7,999	16,912	86,298	-	29,630	-	-	41	-	-
Total for Co.												

FIFTH DISTRICT, CONTINUED

Operators & Collieries	County	Production - net tons				Total production	Pounds dynamite used	Pounds permssible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents
		Shipped to market:	Sold to:	Used at:	By:							
		By railroad	truck	trade	colliery for steam and heat							
Lockett Coal Co.	Lacka.	4,968	475	1,512	68	7,023 (b)	-	675	400	182	12	-
L. J. Minichello Coal Co.	"	388	-	166	17	571 (1)	-	-	-	7	5	-
Moffat Coal Co. Interests	"	-	-	-	-	-	-	-	-	-	-	-
Moffat (B)	"	-	-	-	-	-	-	-	-	-	-	-
Archbald Shaft	"	71,335	-	-	3,074	74,409 (j)	375	2,500	16,250	203	211	-
Continental Slope	"	149,676	-	-	6,441	156,117 (j)	3,500	750	111,775	207	130	1
Hyde Park	"	48,616	-	-	2,117	50,733 (j)	-	-	64,125	206	242	1
Pyne	"	104,096	-	-	4,502	108,598 (j)	9,375	53,100	-	207	99	-
Taylor	"	114,825	-	-	4,948	119,773 (j)	69,250	39,600	-	207	229	1
Pyne Stripping	"	45,149	-	6,064	143	51,356 (k)	-	7,900	925	207	16	-
National "	"	6,352	-	853	20	7,225 (k)	-	900	700	262	6	-
Taylor	"	3,575	-	480	11	4,066 (k)	-	-	1,155	65	12	-
Total for Co.		543,624	-	7,397	21,256	572,277	82,500	104,750	194,930	1179	4	20
Mountain Slope Coal Co.												
Mine	"	6,045	617	1,917	79	8,658 (1)	-	600	12,000	198	17	-
Old Forge Coal Co.	"	-	-	-	-	-	-	-	-	264	25	-
Morgan (B)	"	-	-	-	-	-	-	-	-	-	-	-
Panzitta Coal Co.	"	16,971	1,272	1,804	97	20,144 (m)	-	12,800	42,800	226	38	-
Mine	"	1,159	332	166	-	1,657 (n)	-	425	-	43	5	-
Quinn & Walsh Stripping @	"	-	-	-	-	-	-	-	-	-	-	-
Schuster Coal Co.	"	9,833	-	-	428	10,261 (j)	-	3,300	29,750	207	17	2
Mine	"	-	-	-	-	-	-	-	-	100	12	-
Standard Breaker Corp.	"	-	-	-	-	-	-	-	-	-	-	-
Standard (B)	"	-	-	-	-	-	-	-	-	-	-	-
V. Coal Co.	"	1,956	300	580	60	2,896 (o)	-	-875	8,310	83	13	-
Mine	"	-	-	-	-	-	-	-	-	-	-	-
Grand total		1,230,926	50,817	137,124	40,737	1,459,604	82,500	259,680	793,515	2936	5	35

(B) Breaker  
(a) Coal prepared at Bellevue Washery (3rd)  
(b) " " Morgan and Old Forge (5th) and Number Nine (6th)  
(c) Coal sold unprepared  
(d) Coal prepared at Waddell (1st), Minichello (3rd) and Marvine (5th)  
(e) " " Marvine (5th)  
(f) " " William A (5th)  
(g) Coal prepared at Parkside (5th), Number Nine (6th), Morgan (5th), Kintz (9th) and Miners Mills (10th)  
(h) " " Morgan, Old Forge and Number Nine  
(i) " " Minichello (3rd)  
(j) " " Baker (3rd)  
(k) " " Moffat (5th)

## FIFTH DISTRICT, CONTINUED

FIFTH DISTRICT, CONTINUED						Non-fatal accidents dis-
Operators & Counties	Production - net tons			Pounds permissible explosives	Days worked	Fatal ability 60 days or more
	Shipped to market :	Used at :				
	By rail :	Sold to colliery :	Total production :	Pounds black powder dynamite used :		
	road :	local :	and heat :			
(l) Coal prepared at Morgan (5th) and Kintz (9th)				# Discontinued operation in October		
(m) " Meadowside (3rd), Morgan & Parkside (5th), Number Nine (6th), Dial Rock (9th), and Miners Mills (10th)			*	" " September		
(n) " Waddell (1st), Meadowside (3rd) Parkside & Standard (5th), Russell (6th) and Packer (10th)			%	" " January		
(o) " Parkside (5th)			@	" " May		
			(") Mine coal			

20 Operators in district	Deep mined coal	-
40 Operations "	Stripping "	-
19 Mines "	Bank "	-
		1,116,194
		198,986
		114,424

John J. Ponner, Inspector  
448 Harrison Ave., Scranton

## SIXTH DISTRICT

Adelphia Coal Co.	-	-	-	-	-	-	-	-
Silt Washery	-	-	-	-	-	-	-	-
Poccolline Coal Co.	-	1,106	-	-	1,106 (a)	-	800	9
Mine *	-	-	-	-	-	-	-	-
DeYona Coal Co.	-	-	-	-	-	-	-	-
Stripping	-	3,992	-	-	3,992 (b)	-	1,400	7
Fritz Bros. Coal Co.	-	-	-	-	-	-	-	-
Stripping	-	572	-	-	572 (b)	-	100	4
Gallizzi Coal Co.	-	-	-	-	-	-	-	-
Stripping	6,778	47,126	89	-	53,993 (b)	-	31,700	-
"	-	-	-	-	-	-	-	-
Guzior Coal Co.	-	2,610	-	-	2,610 (c)	-	1,500	11
Mine	-	-	-	-	-	-	-	-
Harris & Walsh	-	-	-	-	-	-	-	-
Stripping #	29,263	-	-	-	29,263 (d)	-	-	20
Heidelberg Coal Co.	-	-	-	-	-	-	-	-
Butler (e)	-	3,141	-	-	3,141 (f) w	-	2,450	12
Heidelberg (B)	62,690	20,000	7,736	-	90,957 (w)	-	57,975	239
" Stripping	22,326	-	-	-	22,326 (f)	-	-	10
Total for Co.	85,016	23,141	7,736	531	116,424	5,025	60,425	339
								6

## SIXTH DISTRICT, CONTINUED

SIXTH DISTRICT, CONTINUED											
Operators & Collieries	County	Production - net tons				Pounds black powder used	Pounds dynamite used	Pounds permis- sible ex- ploives	Days worked	Empl- oyes	Fatal ability acci- dents 60 days or more
		Shipped to market		Used at							
		By railroad	By truck	Sold to local	Used at trade and heat						
Total	production	total	production	total	production	total	production	total	production	total	production
Hillside Coal Co.	Luzerne	7,125	-	-	-	7,125 (p)	-	4,200	206	7	-
Jenkins Coal Co.	"	17,659	-	-	-	17,659 (h)	-	18,200	203	21	-
Jermyn-Green Coal Co.	"	49,819	25,369	-	-	75,188 (1 w)	-	35,250	83	160	1
L. K. Coal Co.	"	27,757	-	-	-	27,757 (t)	-	20,250	117	16	-
Lynott Coal Co.	"	819	-	-	-	819 (k)	-	520	12	11	-
Major Coal Co.	"	-	2,322	-	-	2,322 (b)	-	1,300	186	5	-
Minichello Coal Co.	"	-	385	-	-	385 (b)	-	250	29	5	-
M. B. Coal Co.	"	1,664	-	-	-	1,664 (1)	-	930	100	5	-
Namora Coal Co.	"	-	2,703	-	-	2,703 (b)	-	1,400	89	5	-
Nardone Coal Co.	"	9,681	-	-	-	9,681 (m)	-	1,500	206	8	-
Number Nine Coal Co.	"	265,492	-	150,641	5,349	421,482 (w)	-	228,985	215	881	1
Number Nine (B)	"	24,414	-	14,344	-	38,758 (a)	-	34,400	265	21	10
Stripping		289,906	-	164,985	5,349	460,240	-	80,293	228,985	902	1
Total for Co.										1	10
Pennsylvania Coal Co.	"	-	-	-	-	-	-	-	157	5(n)	-
Butler	"	-	-	-	-	-	-	-	169	9	-
Panzitta Coal Co.	"	-	4,687	-	-	4,687 (o)	-	1,000	124	4	-
Mine	"	8,788	-	-	-	8,788 (q)	-	8,300	96	3	-
Petrillo Coal Co.	"	26,410	-	-	-	26,410 (r)	-	-	194	199	-
Stripping	"	42,300	-	24,525	194	67,019 (w)	-	29,935	191	6	-
Stripping (p)	"	4,525	-	-	-	4,525 (k)	-	3,000	207	25	-
Rhonda Coal Co.	"	24,996	-	-	-	24,996 (h)	-	2,800	29,225	295	-
Park	"	-	-	-	-	-	-	-	-	-	-
Russell Coal Co.	"	-	-	-	-	-	-	-	-	-	-
Russell (R)	"	-	-	-	-	-	-	-	-	-	-
Saratore Coal Co.	"	-	-	-	-	-	-	-	-	-	-
Mine	"	-	-	-	-	-	-	-	-	-	-
Sarf Coal Co.	"	-	-	-	-	-	-	-	-	-	-
Mine	"	-	-	-	-	-	-	-	-	-	-

## SIXTH DISTRICT, CONTINUED

Operators & Collieries	County	Production - net tons				Total production	Pounds of black powder used	Pounds of dynamite used	Days worked	Empl-oyes	Fatal accidents - 60 days or more	Non-fatal accidents
		Shipped to market By	Sold to	Used at colliery	Used for steam and heat							
Stodnick Coal Co.	Luzerne	1,065	605	-	-	1,670 (d)	-	100	900	98	7	-
Sussex Coal Co.	"	2,912	74,541	184	-	77,637 (s)	-	4,725	36,600	207	116	-
Sweeney Coal Co.	"	-	15,454	-	-	15,454 (b)	-	-	1,000	208	6	-
Talamelli Coal Co.	"	-	1,341	-	-	1,341 (t)	-	-	300	33	6	-
Valley View Coal Co.	"	18,072	1,889	4,801	-	24,762 (u)	-	-	-	85	10	-
Vigilance Coal Co.	"	-	2,123	-	-	2,123 (v)	-	700	-	92	6	-
Warner Coal Co.	"	-	9,006	-	-	9,006 (a)	-	225	2,625	229	10	-
Grand total		654,555	218,972	202,320	6,074	1,081,921	-	173,038	479,775	1977	3	17
(B) Breaker												
(a) Coal prepared at Number Nine breaker												
(b) " Russell												
(c) " Morgan & Standard (5th) & No. 14 (8th)												
(d) " " "												
(e) Operated by Jermyn-Green Coal Co. to June, by Heidelberg; starting Dec.												
(f) Coal prepared at Heidelberg breaker												
(g) " Russell (6th) and Madeira (10th)												
(h) " Underwood (2nd)												
(i) " No. 14 (8th)												
(j) " Heidelberg and Russell (6th)												
(k) " " "												
(l) " Morgan (5th) and No. 14 (8th)												
(m) " Underwood (2nd) and Ewen (8th)												
33 Operators in district												
34 Operations "												
19 Mines												
Deep mined coal	-	825,563 tons	Stripping coal	-	205,186 tons	Rank coal	-	51,172 tons				

## SEVENTH DISTRICT

Andrew Wilson, Inspector

1491 River Road, Pittston, Pa.

## Production - net tons

Operators & Collieries	County	Shipped to market :		Used at :		Total	Pounds dynamite used	Pounds permissible explosives used	Days worked	Fatal accidents 60 days or more
		By railroad	By truck	to local trade	to colliery and heat	production :				
Gaylord Coal Co. Mine	Luzerne	20,082	-	-	1,130	21,212 (a)	-	4,300	227	38
Glenn Alden Coal Co.	"	121,344	-	-	6,763	128,107 (a) e)	-	88,250	210	287
Avondale	"	144,353	2,014	10,951	10,151	167,469 (c) e)	-	85,000	206	376
Bliss (B)b)	"	11,910	-	-	902	12,812 (c)	-	-	-	55
Nanticoke Ex. Strip.	"	109,575	-	-	7,657	117,232 (c)	-	-	-	45
Newport " "	"	325,967	2,302	51,142	15,204	394,615 (c)	-	229,000	210	1031
Loomis (B)	"	74,102	-	-	2,499	76,601	-	39,500	209	50
Newport Ex. " "	"	146,593	-	-	8,101	154,694 (a) e)	-	-	365	90
Nottingham	"	-	-	-	-	-	-	-	-	-
Nanticoke Power Plant	"	-	-	-	-	-	-	-	-	-
Total for Co.		933,844	4,316	62,093	51,277	1,051,530	-	21,750	2381	5
Kingston Excavating Co.	"	7,123	-	-	400	7,523 (a)	-	8,100	263	26
Mine	"	49,526	-	-	1,720	51,246 (d)	-	-	250	94
Nanticoke Excavating Co. Stripping	"	-	-	-	-	-	-	-	-	-
Grand total		1,010,575	4,316	62,093	54,527	1,131,511	-	454,150	2539	5

(B) Breaker

(a) Coal prepared at Lance and Woodward breakers, 12th district

(b) Breaker ceased operating August 31, from then on coal prepared at Truesdale breaker, 13th district.

(c) Coal prepared at Loomis (7th) and Truesdale (13th).

(e) Mine coal

(c) Coal prepared at Truesdale breaker

4 Operators in district

11 Operations "

6 Mines

Deep mined coal - 873,620 tons

Stripping " - 257,891 "



EIGHTH DISTRICT

D. H. Connelly, Inspector  
25 E. Bennett Street  
Kingston, Penna.

Operators & Collieries	County	Production - net tons			Total production	Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used	Days worked	Empl- eyes	Fatal accidents	Non-fatal accidents
		Shipped to market	By truck	Used at colliery								
C. & G. Coal Co.	Luzerne	2,953	-	262	3,210 (a) (k)	-	850	150	263	10	-	-
C. & G.												
Jermyn-Green Coal Co.	"	79,743	30,374	9,231	119,348 (b) (k)	-	-	87,100	80	730	-	1
No. 6 (c)	"	81,681	36,380	23,068	141,149 (d) (k)	-	-	112,500	82	733	1	5
No. 14 (c) (B)	"	3,206	-	-	3,206	-	2,000	-	82	8	-	-
" Stripping (c)												
Total for Co.		164,630	66,754	32,319	263,703	-	2,000	199,600		1471	1	6
Knox Coal Co.												
Schooley	"	323,047	-	2,877	355,303 (e) (k)	-	3,950	368,025	214	559	2	7
Number Nine Coal Co.	"	9,098	-	3,737	14,444 (f) (k)	-	-	18,150	23	585	1	-
No. 6 (f)												
Number 14 Coal Co.	"	273	-	385	685 (h) (k)	-	-	300	14	77	-	-
No. 14 (f)												
P. & J. Coal Co.	"	29,201	-	2,420	31,887 (a) (k)	-	225	24,475	191	447	-	1
P. & J.												
Pennsylvania Coal Co.	"	317,333	-	20,881	341,286 (d) (k)	-	-	241,116	206	906	-	7
(B)	"	-	-	-	-	-	-	-	139 (j)	6 (j)	-	-
No. 6	"	-	-	-	-	-	-	-	170 (j)	10 (j)	-	-
No. 14	"	-	-	-	-	-	-	-				
Total for Co.		317,333	-	20,881	341,286	-	-	-		922	-	7
Plains-Hilldale Coal Co.	"	72,296	-	8,633	81,917 (a) (k)	-	3,965	72,600	206	170	-	3
No. 14 Drifts	"	34,056	-	-	34,056 (a)	-	34,750	-	206	17	-	-
Stripping												
Total for Co.		106,352	-	8,633	115,973	-	38,715	72,600		187	-	3
Sarf Coal Co.												
Rex	"	15,067	-	1,248	16,451 (a) (k)	-	75	27,500	221	25	-	2
Valley View Coal Co.	"	32,815	1,801	8,330	42,946 (d) (l)	-	-	-	164	40	-	-
Valley View (B)												
Grand total		1,000,769	68,555	75,275	1,185,918	-	45,815	951,916		3923	4	26

(a) Coal prepared at Even breaker  
(b) " " " No. 14  
(c) Ceased operation in June  
(d) Coal from outside sources not included in total.  
(e) Coal prepared at Underwood (2nd) and Ewen (8th)

(f) Operated to June by Jermyn-Green Coal Co.  
(g) Coal prepared at No. 9 breaker, 6th district.  
(h) Coal prepared at Underwood breaker, 2nd district.  
(i) Includes 66,927 tons silt, prepared at Adelphi Washery, 6th dist.  
(j) Maintenance men and days while collieries were idle.  
(k) Mine coal  
(l) Bank coal



# EIGHTH DISTRICT, CONTINUED

Non-fatal  
accidents

dis-  
ability  
60 days  
or more

Fatal  
accidents  
60 days  
or more

Days  
worked

Pounds  
permissible  
blow  
used

Pounds  
dynamite  
used

Pounds  
black  
powder  
used

Deep mined coal  
Stripping  
Bank

1,038,783 tons  
37,262  
109,873

Production - net tons

Shipped to market :  
By : railroad

Used at :  
to colliery :  
local for steam :  
trade and heat :  
production :

Operators & collieries

County

10 Operators in district

11 Operations "

8 Mines

## NINTH DISTRICT

D. W. Cosslett, Inspector  
30 Main St., Wanamie, Pa.

Butter Tub Coal Co.

Luzerne

Butter Tub Coal Co.

Dial Rock Bank

Maltby

Total for Co.

Dial Rock Coal Co.

Dial Rock (B)

Genelow Coal Co.

Genelow

Harry E. Coal Co.

Harry E. (B)

Stripping

Total for Co.

Kehoe-Berge Coal Co.

Exeter (e)

Lehigh Valley Coal Co.

Prospect (B)

Westmoreland

" Stripping

Total for Co.

Luzerne County Gas & Elec. Co.

Maltby Bank

Maffei Coal Co.

Maffei

Maltby Coal Co.

Maltby

NINTH DISTRICT, CONTINUED

NINTH DISTRICT, CONTINUED												
Operators & Collieries	County	Production - net tons				Total production	Pounds		Days worked	Empl- oves	Fatal acci- dents	Non-fatal accidents 60 days or more
		Shipped to market		Used at			Pounds dynamite used	Pounds permissible explosives used				
		By railroad	By truck	Sold to colliery	By local for steam and heat							
Payne Coal Co.	Luzerne	61,979	-	712	703	63,394 (c) i	-	4,600	64,100	52	(P)	1
Exeter (f)	"	-	-	-	-	-	-	-	-	-	-	-
R. & W. Coal Co.	"	-	-	270	-	270 (i)	-	100	500	18	13	-
Kintz (B)	"	-	-	-	-	-	-	-	-	-	-	-
Sullivan Trail Coal Co.	"	-	-	-	-	-	-	-	-	-	-	-
Clear Spring (Shops)	"	-	-	-	-	-	-	-	-	225	73	-
West Exeter Coal Mng. Co.	"	28,600	3,881	2,702	3,488	38,671 (c) i	-	5,450	34,800	200	51	-
West Exeter	"	-	-	-	-	-	-	-	-	-	-	-
Grand total		948,977	163,372	199,048	67,199	1,378,596	-	254,374	830,117	3,324	8	37

(B) Breaker

- (a) Coal prepared at Dial Rock breaker  
 (b) Slush  
 (c) Coal prepared at Prospect  
 (d) " William A  
 (5th)  
 (i) Mine coal

14 Operators in district

17 Operations "  
 11 Mines "

Deep mined coal  
 Stripping "  
 Bank "

- 1,250,951 tons  
 - 27,946 "  
 - 99,699 "

- (e) Exeter, formerly operated by Payne Coal Co., and Red Ash Shaft,  
 operated by Kehoe-Berge, combined, now known as Exeter  
 (f) Operated by Payne Coal Co. to May, then by Kehoe-Berge Coal Co.  
 (P) See Kehoe-Berge (Exeter) employees. Operated with approximately  
 same number.  
 (h) Coal prepared at Miners Mills breaker, 10th district.

TENTH DISTRICT

Jos. C. Hines, Inspector  
 27 James St., Pittston, Pa.

Pernice White Ash C. Co.	2,818	8,942	-	23,585 (n)	40,000	500	-	121	104	-	-	-
Connell (B) Sullivan												
Capone Coal Co.	23,670	-	30-550	50	54,270 (a)	-	-	20,900	186	105	-	1
Miners Mills (B) Luzerne												
Conlon Coal Co. (B)	57,005	-	6,087	329	63,421 (b)	-	-	1,200	48,750	203	119	1
Madelra (B)	31,574	2,240	4,604	290	38,708 (n)	-	-	7,700	31,650	188	157	2
Duryea Anthracite Co. (B)												
Packer (B)	18,026	-	23,727	-	41,753 (c) d	-	-	61,825	19,650	208	50	1
Franklin Coal Mng. Co.												
Mineral Spring												
Greenwood Mining Co.,												
Laflin	28,062	-	-	-	28,062 (e) f	-	-	2,650	31,875	205	58	-

## TENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons			Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- ability 60 days or more
		Shipped to market By	By railroad	Sold to local colliery for steam and heat								
Hudson Coal Co.	Luzerne	-	156,561	27,511	16,602	200,674 (g)h	213,100	36,413	53,013	214	370	1
Delaware	"	-	185,723	31,709	18,945	236,377 (i)	113,025	13,770	75,825	214	534	-
Pine Ridge	(B)	-	33,212	4,055	-	37,267 (j)	-	20,000	2,600	214	69	1
Lafelin	"	-	375,496	63,275	35,547	474,318	326,125	70,183	131,438	214	973	1
Total for Co.												11
Lehigh Valley Coal Co.	"	287,823	17,706	1,960	30,052	337,541 (k)n	-	218,125	-	184	657	1
Henry	"	-	38,034	-	-	38,034 (l)n	-	-	32,900	211	75	-
Pringle Coal Co.	"	-	24,639	-	-	24,639 (m)n	-	650	28,125	164	63	-
East Boston	"	-	887,147	31,771	139,145	66,268	1,124,331	366,125	362,833	345,288	2361	3
West Side Coal Co.	"	-	-	-	-	-	-	-	-	-	-	40
West Side	"	-	-	-	-	-	-	-	-	-	-	-
Grand total												

(B) Breaker

(a) Includes 22,649 tons stripping and 2,238 tons bank coal.

(b) " 13,024 "

(c) Coal prepared at Harry E. breaker, 9th district

(d) Includes 18,976 tons stripping coal.

(e) Coal prepared at Lafelin breaker of Hudson Coal Co.

(f) Includes 6,302 tons stripping coal.

(n) Mine coal

(g) Coal prepared at Lafelin and Pine Ridge breakers of Hudson Coal Co.

(h) Includes 16,246 tons stripping coal.

(i) " 18,296 "

(j) " 17,879 " and 6,776 tons bank coal.

(k) Coal prepared at Prospect breaker, 9th district.

(l) " " Waddell (1st), William A (5th), Heidelberg (6th), and Harry E. (9th)

(m) " " Waddell (1st), William A (5th), Heidelberg (6th), No. 14 (8th) and Dial Rock (9th).

10 Operators in district

12 Operations " Deep mined coal

12 Mines " Stripping " 1,001,945 tons

" " Bank " 113,372 "

" " " 9,014 "



TWELFTH DISTRICT

E. C. Curtis, Inspector  
52 Poplar Street  
Kingston, Penna.

Operators & collieries	County	Production - net tons				Total production	Pounds dynamite used	Pounds permissible explosives used	Days worked	Fatal accidents	Non-fatal accidents
		Shipped to market	By truck	By railroad	Used at colliery to local and trade						
Bird Mining Co.	Luzerne	28,482	-	-	-	28,482 (a)	750	13,400	214	37	1
Carey, Baxter & Kennedy Stripping	"	-	-	-	-	(b)	-	514,060	234	80	-
Courtdale Coal Co.	"	52,470	-	-	-	52,470 (c) f	1,000	45,625	213	78	-
Dewees Bros. Stripping	"	-	-	-	-	(b)	-	19,500	244	10	-
Glen Alden Coal Co.	"	238,702	22,604	110,406	22,084	393,796 (f)	4,500	244,750	208	1014	6
Lance (B)	"	362,417	8,307	93,052	34,532	498,308 (f)	-	283,000	210	1531	5
Woodward (B)	"	601,119	30,911	203,458	56,616	892,104	-	4,500	210	2545	12
Total for Co.								527,750		6	18
Hudson Coal Co.	"	737,704	-	44,121	34,998	813,823 (d) f	61,850	14,230	214	1441	4
Loree (B)	"	57,936	-	-	-	57,936 (c)	-	67,075	213	77	-
Kingston Mining Corp.	"	13,421	-	-	-	13,421 (e)	-	8,450	214	23	-
Larksville Coal Co.	"										
Grand total		1,491,132	30,911	244,579	91,614	1,858,236	61,850	39,980	1,441,185	4291	36

(B) Breaker

(a) Coal prepared at Lance breaker

(b) Included in production for Loree colliery.

(c) Coal prepared at Woodward breaker

(d) Includes 106,632 tons stripping coal, produced by Carey, Baxter & Kennedy, and 29,889 tons stripping coal, produced by Dewees Bros.

(e) Coal prepared at Loree breaker

(f) Mine coal

Deep mined coal - 1,721,715 tons  
Stripping " - 136,521 "  
Bank -

8 Operators in district  
9 Operations "  
7 Mines "

THIRTEENTH DISTRICT

J. D. Edwards, Inspector  
55 Butler Street  
Wyoming, Penna.

Operators & collieries	County	Production - net tons			Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- ability 60 days or more
		Shipped to market By	Sold to	Used at colliery for steam and heat							
		By railroad	By truck	By local	Total production						
Glen Alden Coal Co.	Luzerne	348,048	-	14,079	362,127 (a)	18,150	233,000	211	1022	2	11
Buttonwood (B)	"	314,799	736	245,368	583,572	20,550	359,500	209	1542	1	21
Huber	"	87,026	-	3,482	90,508 (a)	583,900	-	261	64	-	-
A.E. Dick Stripping	"	135,696	-	6,035	141,731 (b)	2,500	68,000	209	212	-	4
Sugar Notch	"	398,035	49	68,067	466,108	62,425	303,500	209	1403	2	18
Truesdale (B)	"	29,173	-	1,535	30,708 (b)	119,700	-	145	26	-	-
A.E. Dick Stripping	"	86,492	-	3,737	90,229 (b)	173,900	-	274	35	-	-
Kingston Excav. "	"	-	-	-	-	-	-	-	-	-	-
Grand total		1,399,269	785	313,435	1,785,283	981,125	964,000	-	4304	5	54

(B) Breaker  
(a) Coal prepared at Huber breaker  
(b) " " Truesdale "

1 Operator in district  
7 Operations "  
4 Mines "

Deep mined coal  
Stripping "  
Bank "

1,573,838 tons  
211,445 "  
---

FOURTEENTH DISTRICT

K. C. Lee, Inspector  
88 Old River Road  
Wilkes-Barre, Penna.

Alden Coal Co.	Luzerne	39,825	-	6,505	622	46,952	1,950	34,200	105	232	-
Alden (a) (B)	"	11,592	-	-	-	11,592 (b)	6,500	15,000	105	241	-
Stripping (a)	"	165	-	-	-	165	-	-	-	-	-
Bank (a)	"	-	-	-	-	-	-	-	-	-	-
Total for Co.		51,582	-	6,505	622	58,709	8,450	49,200	-	256	-
Duryea Anthracite Co.	"	8,190	-	-	-	8,190 (c)	5,125	5,350	207	17	-
West End	"	42,013	-	-	-	42,013 (c)	18,150	41,885	207	22	-
Stripping	"	623	-	-	-	623 (c)	-	-	12	4	-
Bank	"	-	-	-	-	-	-	-	-	-	-
Total for Co.		50,826	-	-	-	50,826	23,275	47,235	-	43	-
Glen Alden Coal Co.	"	555,338	15,684	26,916	28,615	626,553	39,400	424,800	215	1405	1
Wanamie (B)	"	198,566	-	-	9,551	208,117	619,100	-	269	52	-
Stripping	"	-	-	-	-	-	-	-	-	-	-
Total for Co.		753,904	15,684	26,916	38,166	834,670	658,500	424,800	-	1457	1

## FOURTEENTH DISTRICT, CONTINUED

FOURTEENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds		Days worked	Fatal accidents	Non-fatal accidents
		Shipped to market		Used at			Pounds dynamite used	Pounds permissible explosives used			
		By railroad	By truck	By local	By colliery						
Stackhouse Coal Co.	Luzerne	-	-	392	-	392	-	300	94	7	-
Stackhouse Stripping	"	-	127	-	-	127 (d)	-	500	49	4	-
Bank	"	-	754	-	-	754 (e)	-	-	45	3	-
Total for Co.		-	881	392	-	1,273	-	800	14	-	-
Susquehanna Collieries Div.											
M. A. Hanna Co.	(B) Luzerne	287,010	83,975	123,454	23,569	518,008	-	6,000	196	1356	4
No. 7 Stripping	"	71,962	-	-	-	71,962 (d)	-	46,500	196	34	-
Glen Lyon	(B) "	304,551	8,390	20,653	27,828	361,422	-	22,900	195	830	4
Stripping	"	79,106	-	-	-	79,106 (f)	-	275,618	195	30	-
Alden	"	32,408	-	-	-	32,408 (g)	-	7,825	108	(h)	-
Stripping	"	6,351	-	-	-	6,351 (d)	-	500	108	(h)	-
Total for Co.		781,388	92,365	144,107	51,397	1,069,257	-	359,343	2250	8	44
Grand total		1,637,700	108,930	177,920	90,185	2,014,735	-	1,049,768	4020	9	59

(B) Breaker

(a) Discontinued operation in June. Taken over by M. A. Hanna in July.

(b) 8,332 tons prepared at No. 7 breaker, of M. A. Hanna Co.

(c) Coal prepared at Packer breaker, 10th district

(d) " " No. 7 breaker

(e) Coal sold unprepared

(f) Coal prepared at Glen Lyon breaker

(g) 9,977 tons prepared at Glen Lyon and 22,431 tons at No. 7

(h) See employees for Alden Coal Co. Operated with approximately the same number.

(B) Breaker

(a) Discontinued operation in June. Taken over by M. A. Hanna in July.

(b) 8,332 tons prepared at No. 7 breaker, of M. A. Hanna Co.

(c) Coal prepared at Packer breaker, 10th district

(d) " " No. 7 breaker

(e) Coal sold unprepared

(f) Coal prepared at Glen Lyon breaker

(g) 9,977 tons prepared at Glen Lyon and 22,431 tons at No. 7

(h) See employees for Alden Coal Co. Operated with approximately the same number.

5 Operators in district

15 Operations "

6 Mines "

Deep mined coal

Stripping " 1,593,925 tons

Bank " 419,268 "

" 1,542



FIFTEENTH DISTRICT

	Production - net tons				Total production :	Pounds dynamite used	Pounds permissible explosives used	Days worked	Fatal accidents	Non-fatal accidents
	Shipped to market :	Sold :	Used at :	By :						
Operators & collieries	By railroad	By truck :	By local for steam and heat	By trade :						
County										
Glen City Coal Co.	200	-	-	500	-	100	200	61	12	-
Red Oak (B)	300	-	-	2,000	-	-	-	26	5	-
" Bank	500	-	-	2,500	-	100	200	17	-	-
Total for Co.										
Gowen Coal Co. (B)	6,353	-	111	7,994	-	1,400	2,875	132	35	1
Gowen " Stripping	15,115	-	300	20,215 (b)	-	4,250	-	200	10	-
" Black Ridge Bank	3,805	-	-	4,035 (b)	-	-	-	47	14	-
Western Lehigh Strip. Columbia	6,155	-	-	8,420 (b)	-	1,500	-	122	13	-
Western Lehigh Bank	258	-	-	258 (b)	-	-	-	10	5	-
Total for Co.	31,986	-	411	40,922	-	7,150	2,875	77	1	1
Greenwood Mining Co.	10,638	-	84	10,722 (a)(c)	-	-	9,375	205	23	1
Drifton No. 9	7,252	-	57	7,309 (a)(c)	-	-	3,300	199	14	-
Eckley No. 2	17,890	-	141	18,031	-	-	12,675	37	1	-
Total for Co.										
Haddock Mining Co.	48,956	-	475	49,431 (a)(e)	-	57,825	39,250	127	174	1
Deringer (d)	25,621	-	-	25,621 (e)	-	80,625	-	186	42	-
" Stripping	6,382	-	-	6,382 (e)	-	-	-	56	5	-
" Bank	22,955	-	-	22,955 (a)(e)	-	1,000	26,000	130	85	-
Tomhicken (d)	42,124	-	160	42,284 (e)	-	6,500	-	186	23	-
" Stripping	116,038	-	635	116,673	-	115,950	65,250	329	-	1
Total for Co.										
Hydrated Anth. Fuel Co.	17,067	-	300	21,956 (a)	-	-	9,875	135	125	-
Cold Spring #6 (B)	9,348	-	112	9,961	-	25,650	-	43	26	-
" Stripping	116,105	-	500	122,104	-	-	-	190	13	-
" Bank	112,520	-	912	154,021	-	25,650	9,875	164	-	-
Total for Co.										
Jeddo-Highland Coal Co. (B)	26,659	53,922	834	104,460 (a)(c)	-	-	99,225	207	225	6
Drifton	72,988	-	588	73,576 (c)	-	18,750	-	249	39	-
" Stripping	27,955	56,542	858	109,519 (a)(c)	-	-	108,525	208	180	-
Eckley	34,090	-	269	34,359 (c)	-	135,270	-	208	54	-
"	5,610	11,347	194	22,000 (a)(c)	-	1,250	5,400	208	74	-
Highland #5	23,653	-	165	23,818 (c)	-	95,150	-	217	35	-
Highland #2 Stripping										



FIFTEENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used	Days worked	Fatal accidents	Non-fatal accidents
		Shipped to market	By truck	Sold to local trade	Used at colliery and heat						
Jeddo-Highland C. Co., Contd.	Luzerne	12,949	26,192	11,193	447	50,781 (a)(c)	-	19,500	200	305	1
Jeddo No. 7	"	185,033	-	-	1,643	186,676 (c)	-	889,950	256	58	-
" " Strip.	"	30,217	61,118	26,120	931	118,386 (a)(c)	-	99,325	207	215	-
Stockton	"	74,208	-	-	588	74,796 (c)	-	-	250	20	-
Total for Co.		493,362	209,121	89,371	6,517	798,371	-	1,148,370	331,975	1205	1
Lombardo & Puglia											
Excavating Co.											
Tenhooken #5 Strip.	"	3,963	-	-	-	3,963 (f)	-	800	125	7	-
Monitor Co., Inc.	"	24,299	994	3,941	290	29,524 (g)(h)	-	-	93	60	-
East Laurel (B)	"										
Sandy Run Miners & Producers	"										
Upper Lehigh (B)	"										
Stripping	"	52,040	4,850	5,715	235	62,840	-	15,600	155	27	-
Total for Co.		52,040	4,850	5,715	235	62,840	-	15,600	244	42	-
Grand total		912,598	214,965	120,111	9,171	1,256,845	-	1,343,620	422,850	1965	3

(B) Breaker

(a) Deep mined coal

(b) Coal prepared at Cowen breaker

(c) " " Jeddo-Highland breaker

(d) Discontinued operation in September

9 Operators in district

31 Operations "

11 Mines

Deep mined coal

Stripping "

Bank "

526,013 tons

566,529 "

164,303 "

(e) Coal prepared at Beaver Meadow breaker, 18th district

(f) 1,078 tons prepared at Cold Spring No. 6, 1,898 tons at Beaver Meadow,

(g) 865 tons at Beaver Brook, 16th district, and 121 tons at Coleraine, 16th.

(g) Bank coal

(h) Discontinued operation in October

SIXTEENTH DISTRICT

R. Ditzler, Acting Inspector 609 Grant Street Hazleton, Penna.	Operators & collieries	County	Production - net tons			Pounds black powder used	Pounds dynamite used	Pounds permis- sible ex- plosives used	Days worked	Fatal acci- dents	accidents dis- ability 60 days or more
			Shipped to market : By :	Sold : to :	Used at colliery for steam and heat						
Total for Co.			13,078	3,698	-	16,876	-	-	175	10	-
Beaver Brook Coal Co.			5,669	2,100	-	7,769	-	-	111	10	-
Beaver Brook (B)			18,747	5,798	-	24,545	-	-	42	6	-
Total for Co.			68,946	-	-	68,946 (a)	-	-	264	10	-
Hill Top			129,632	5,591	-	135,223 (a)	-	-	247	26	1
Carbonizing Coal Co.			56,427	7,859	4,022	70,908 (b)(c)	-	19,100	191	145	1
Carbonizing (B)			3,532	348	193	4,324 (c)	-	-	203	20	-
Cranberry Mining Co.			69,022	6,798	3,775	84,497 (c)	-	4,650	203	451	-
Glen Alden Coal Co.			87,781	8,646	4,801	107,921 (c)	-	92,350	203	307	3
Audenried )			99,266	9,777	5,429	121,016	-	115,400	251	79	-
Schuyl. )			9,697	955	530	11,905	-	7,500	163	12	-
Total for Co.			269,298	26,524	14,728	329,663	-	507,850	-	869	12
Harbon Coal & Contr'g. Co.			11,029	-	-	11,029 (d)	-	10,950	78	23	-
Shepton Stripping			83,825	5,270	3,158	94,357 (c)(e)	-	13,225	193	210	4
Lattimer Coal Corp.			74,454	9,707	5,016	92,276 (f)	-	36,700	193	60	1
Humboldt			158,279	14,977	8,174	186,633	-	49,925	270	270	5
Total for Co.			24,488	3,110	1,745	30,800 (b)	-	-	231	18	-
Lehigh Valley Coal Co.			75,530	10,497	3,563	94,964 (g)	-	52,075	221	55	1
Black Ridge Strip.			153	21	11	205 (g)	-	-	2	6	-
Cranberry			100,171	13,928	7,130	125,969	-	52,075	79	79	1
Bank			25,731	-	-	25,731 (a)	-	-	105	14	-
Total for Co.			15,541	977	585	17,472 (c)	-	1,400	193	135	-
Norvidas & Palko			48,045	3,020	1,810	54,034	-	166,875	237	50	-
Oneida Silt Plant (B)			45,586	2,866	1,717	51,252 (c)	-	22,000	188	144	3
Payne Coal Co.			50,538	3,177	1,904	56,338	-	27,850	239	23	-
Spring Mountain			159,710	10,040	6,016	179,596	-	218,425	352	352	3
Spring Brook											
Spring Brook											
Total for Co.											

## SIXTEENTH DISTRICT, CONTINUED

[illegible]

(B) Breaker

(a) Bank coal

(b) Coal prepared at Hazleton Shaft breaker, 18th district

(c) Deep mined coal

(d) 2,207 tons prepared

(a) 2,301 tons prepared at Beaver Brook, 1,944 tons at Coriariane, 500 tons at Beaver Meadow, 18th district, 1,472 tons at Myrtle, 19th district, and 96 tons at Albion breaker 20th district

## 12 Operators in district

28 Operations "

8 Mines "

## Deep mined coal

## Stripping

Bank

WATER

(e) Coal prepared at Spring Mountain breaker

(f) 9,819 tons prepared at Spring Mountain, the balance at Hazleton Shaft. 18th district

(g) 306 tons prepared at Spring Mountain, the balance at Hazleton Shaft

(h) Coal sold unprepared

(1) 110 tons prepared at Broadmont-breaker, 18th district,  
balance at Audenried breaker

[illegible]

2 Operators in district	Deep mined coal	-	1,594,873 tons
8 Operations "	Stripping	"	606,569 "
11 Mines	Bank	"	217,268 "

J. J. Shober, Inspector 227 W. Ridge Street Lansford, Penna.									
Broad Mountain Fuel Corp.									
Broadmont (B)		Carbon							
"	Stripping								
23,252	25,161	1,412	325	50,150	-	170,900	-	178	23
23,252	25,161	1,412	325	50,150	-	170,900	-	251	27
Total for Co.				50,150	-	170,900	-	50	-
Haddock Mining Co.									
39,885	74,274	3,882	1,791	119,832	-	90,000	-	119	161
30,561	-	-	-	30,561	-	68,450	-	185	85
70,446	74,274	3,882	1,791	150,393	-	68,450	-	546	2
Total for Co.				150,393	-	68,450	-	546	2
Fairclough Mining Corp.									
2,377	-	-	-	2,377 (b)	-	-	-	43	8
Stripping (c)				2,377 (b)	-	-	-	-	-

# EIGHTEENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Total production	Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used	Days worked	Empl-eyes	Fatal accidents	Non-fatal accidents
		Shipped to market		Used at										
		By railroad	By truck	By local	to colliery	for steam and heat								
Lehigh Navigation Coal Co., Inc.	Carbon	692,604	-	1,075	34,004	727,683	-	271,900	309,862	187	1911	3	22	
Lansford Stripping Bank	"	445,940	-	-	-	445,940	-	886,675	-	187	297	-	-	
		7,807	-	-	-	7,807	-	-	-	-	-	-	-	
Total for Co.		1,146,351	-	1,075	34,004	1,181,430	-	1,158,575	309,862	-	2208	3	22	
Lehigh Valley Coal Co.														
Hazleton Shaft (B)	Luzerne	532,527	74,165	37,958	40,265	684,915	-	-	320,400	193	1731	-	23	
Stripping Bank	"	56,921	7,927	4,057	3,234	72,139	-	101,525	-	235	67	-	-	
	"	8,131	1,132	579	1,290	11,132	-	-	-	68	9	-	-	
Total for Co.		597,579	83,224	42,594	44,789	768,186	-	101,525	320,400	-	1807	-	23	
Norvidas & Patrick Washery (d) (B)	Carbon	4,560	-	-	-	4,560	-	-	-	75	7	-	-	
Grand total		1,842,188	185,036	48,963	80,909	2,157,096	-	1,159,450	720,262	-	4626	3	47	

(B) Breaker  
(a) Discontinued operation in September  
(b) Coal prepared at Coleraine breaker, 16th district

(c) Discontinued operation in June  
(d) " " July

Deep mined coal - 1,532,430 tons  
Stripping " - 601,167 "  
Bank " - 23,499 "

6 Operators in district  
12 Operations "  
14 Mines "

## NINETEENTH DISTRICT

T. A. Ryan, Inspector													
1243 W. Norwegian St.													
Pottsville, Penna.													
A. & A. Coal Co.													
Marlin (B)	Schuyl.	-	-	-	-	(*)	-	-	-	66	10	-	1
Beckville Coal Co.	"	9,800	13,100	1,100	-	24,000 (*)p	-	-	-	236	43	-	-
Beckville (B)	"												
Bell Patterson Coal Co.	"	8,110	1,020	420	206	9,756 (a)	-	-	8,500	45	89	-	1
Wine (f)	"												
Brenier & Blow Strip. Co.	"	2,100	510	230	-	2,840 (c)	-	-	-	32	8	-	-
Stripping	"												

NINETEENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Pounds dynamite used	Pounds permissible explosives used	Days worked	Fatal ability accidents 60 days or more
		Shipped to market By	Sold to	colliery for steam and heat	Total production				
Capparell Contr'g. Co. Stripping Coal Rain Coal Co. Mine Stripping	Schuyl.	68,620	22,720	9,521	-	100,861 (b)	-	207	79
	"				30,292	-	14,150	136	55
	"				16,305	-	-	81	12
Total for Co.		38,100	6,240	2,447	110	46,597 (d)	-	14,150	67
Colitz Coal Co. Stripping Colitz	"				137,358	-	340,162	225	64
Total for Co.	"	46,705	88,782	13,701	270	149,458 (g)	-	1,100	142
Darkwater Coal Co. Wolf Creek (B) Eagle Hill Coal Co. Eagle Hill (B) Stripping	"	4,360	6,720	920	-	12,000 (p)**	-	176	22
	"				-	-	-	170	29
	"	68,286	1,920	5,460	150	75,816	-	167	25
Total for Co.	"	68,286	1,920	5,460	150	75,816	-	5,600	54
Glacier Coal Sales Co. Glacier (B) Haven Coal & Supply Co. Haven (B) Hillside Coal Co. Hillside (B) Huss Contracting Co. Tamaqua Stripping New Phila. " " Silver Creek "	"	-	-	-	-	(*)	-	101	36
	"	-	29,760	-	-	29,760 (4)	-	224	6
	"	220	17,220	560	-	18,000 (p)**	-	306	40
	"				132,416 (c)	-	128,750	191	42
	"				31,744 (c)	-	-	146	14
	"				29,290 (c)	-	-	61	26
Total for Co.	"	115,800	69,200	8,450	-	193,450	-	128,750	82
Indian Run Coal Co. Indian Run (*) (B) K. M. F. Coal Service K. M. F. (*) (B) Kurchock Contracting Co. Stripping Lohb Coal Co. Lohb (B) Stripping	"	8,200	-	13,800	-	22,000 (p)	-	253	43
	"	-	-	-	-	-	-	216	8
	"	1,120	740	540	-	2,400 (c)	-	37	12
	"				15,612 (f)	-	100	193	76
Total for Co.	"	12,280	3,890	1,529	120	17,819	-	31	18
	"						100	8,900	94



NINETEENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Pounds dynamite used	Pounds permis- sible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents
		Shipped to market By	Sold to colliery	Used at local for steam and heat	Total production						
Millard Coal Co.	Schuyl.	2,370	2,340	320	5,030 (e)	-	3,000	166	10	-	-
Mine	"	-	-	-	-	-	-	198	60	-	3
Mountain Top Coal Co.	"	-	-	-	265,056	-	214,425	212	148	-	-
Carbon (B)	"	-	-	-	5,880	-	-	125	4	-	-
Stripping	"	-	-	-	-	-	-	-	-	-	-
Bank	"	-	-	-	-	-	-	-	-	-	-
Total for Co.		183,900	78,120	8,776	140	270,936	214,425	212	212	-	3
Mt. Laffee Coal Co.	"	1,990	1,100	180	3,270 (j)	-	1,200	148	18	-	-
Mine	"	-	-	-	-	-	-	49	11	-	-
Musolino Contracting Co.	"	-	3,110	1,700	4,810 (a)	-	-	213	55	-	-
Stripping	"	-	-	-	-	-	-	-	-	-	-
Penna Coal Co.	"	34,870	-	5,300	40,170 (p)	-	-	-	-	-	-
Penna	"	-	-	-	-	-	-	-	-	-	-
Philadelphia & Reading	"	-	-	-	-	-	-	-	-	-	-
Coal & Iron Co.	"	-	-	-	-	-	-	-	-	-	-
Newkirk Tunnel	"	-	-	-	144,699 (b)	-	63,100	184	218	-	2
Oak Hill	"	-	-	-	131,813	-	47,050	175	439	-	8
(B)	"	-	-	-	780,532 (k)	-	-	218	612	-	-
Stripping	"	-	-	-	52,317	-	-	180	37	-	-
Silt	"	-	-	-	2,549	-	-	85	4	-	-
Gulf	"	-	-	-	-	-	-	-	-	-	-
Total for Co.		764,390	270,148	70,239	7,133	1,111,910	159,943	1310	1310	-	10
Replier Coal Co.	"	-	-	-	-	-	-	-	-	-	-
New Castle (B)	"	-	-	-	116,524 (g)	-	40,775	171	277	-	4
Stripping	"	-	-	-	184,181	-	648,739	171	64	-	-
Bank	"	-	-	-	7,784	-	-	56	10	-	-
Total for Co.		233,584	65,396	8,567	942	308,189	43,875	351	351	-	4
Salem Hill Coal Co.	"	-	-	-	-	-	-	-	-	-	-
(H)	"	-	-	-	32,404 (g)	-	22,300	148	122	1	6
Bank	"	-	-	-	2,678	-	-	32	5	-	-
Total for Co.		26,512	-	8,735	35	35,282	22,300	127	127	1	6
St. Clair Coal Co.	"	-	-	-	-	-	-	-	-	-	-
St. Clair (B)	"	-	-	-	122,671 (g)	-	2,163	196	629	-	6
Stripping	"	-	-	-	188,496	-	337,054	196	76	-	-
Bank	"	-	-	-	235,796	-	-	192	42	-	-
Total for Co.		347,509	155,018	40,363	4,073	546,963	339,217	747	747	-	6
Susan Coal Co.	"	-	-	-	-	-	-	-	-	-	-
Mine	"	-	-	-	4,100 (h)	-	2,800	201	7	-	-

NINETEENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons			Total production	Pounds		Days worked	Empl- eyes	Fatal acci- dents	Non-fatal accidents dis- ability 60 days or more
		Shipped to market	Sold to colliery	Used at local for steam and heat		black powder	dynamite used				
Tamaqua Coal Pockets	Schuyl.	8,797	15,564	1,185	25,546 (1.)	-	-	219	7	-	-
Tamaqua (B)	"	-	-	-	(*)	-	-	135	41	-	-
Winton Coal Co. (B)	"	-	-	-	25,175	-	1,600	198	17	-	-
Myrtle Stripping Bank	"	-	-	-	2,425	-	-	33	4	-	-
Total for Co.		23,074	4,450	76	27,600	-	1,600	-	62	-	-
Grand total		2,010,697	861,168	203,743	3,088,863	-	1,983,513	561,743	3716	1	36

(B) Breaker

(\*) Preparation plant

(a) Coal prepared at Buck Run breaker, 27th district

(b) " " St. Nicholas " 20th "

(c) " " Salem Hill

(d) " " Glacier

(e) " " Penna

(f) Discontinued operation in July

(g) Deep mined coal

(h) Coal prepared in the 20th district

(i) Bank coal

(j) Coal prepared at Westwood breaker, 25th district

(k) 184,060 tons prepared at St. Nicholas breaker, and 88,500 tons

(l) Stripping coal. (at Westwood

(p) Coal purchased from small mines in 19th district

29 Operators in district

48 Operations "

17 Mines "

Deep mined coal

Stripping "

Bank

744,441 tons

2005,033 "

339,389 "

TWENTIETH DISTRICT

John H. Morgan, Inspector  
328 Washington Street  
Frackville, Penna.

Altamont Coal Co. Breaker (B)	Schuyl.	223	13,461	60	13,744 (a)	-	-	305	8	-	-
Atkins Coal Co. Breaker (B)	"	40,076	3,623	-	67,457 (a)	-	-	247	13	-	1
Bernotsky Coal Co. Mine (B)	"	4,077	-	21	4,525 (b)	-	-	675	5	-	-
Engle Coal Co. Mine (B)	"	2,569	-	13	2,851 (b)	-	-	525	6	-	-
Englewood Coal Co. Breaker (B)	"	6,325	-	1,200	7,525 (a)	-	-	220	6	-	-



TWENTIETH DISTRICT, CONTINUED

TWENTIETH DISTRICT, CONTINUED										
Operators & collieries	County	Production - net tons				Pounds dynamite used	Pounds permissible explosives used	Days worked	Fatal accidents 60 days or more	Non-fatal accidents
		Shipped to market		Used at						
		By railroad	By truck	By local	Sold to colliery for steam and heat					
Schuyl.										
Gilberton Coal Co.	"	13,022	5,648	94	-	18,764 (d)	-	190	110	3
Gilberton (B)	"	22,245	9,974	165	750	33,134	-	(c)	-	-
Lawrence Bank	"	16,657	7,225	120	-	24,002	71,600	190	51	-
Stripping (Merry)	"	51,924	22,847	379	750	75,900	-	53	15	-
Total for Co.									176	3
Grachowski Coal Co.	"	4,712	2,044	34	-	6,790 (e)	-	2,600	253	8
Mine	"									
Gulbinsky Coal Co.	"	4,680	2,030	34	-	6,744 (e)	2,600	-	280	8
Mine	"									
Harris Coal Co.	"	3,225	-	337	17	3,579 (b)	225	625	244	8
Mine	"									
Ivanowski Coal Co.	"	2,081	-	218	11	2,310 (b)	750	425	240	5
Mine	"									
Klimas Bros. Coal Co.	"	9,535	-	999	49	10,583 (b)	100	8,500	198	17
Mine	"									
Kohinoor Coal Co.	"	-	-	-	-	-	-	-	142	61
Breaker (B)	"	27,828	136	354	132	27,828	8,076	-	142	63
Stripping Bank	"	73,468	358	494	354	74,180	-	-	-	-
Total for Co.		-101,028	-	-	486	102,008	-	8,076	-	124
Kolis Coal Co.	"	2,861	-	299	15	3,175 (b)	-	575	246	5
Mine	"									
Kovalick Coal Co.	"	1,974	-	207	10	2,191 (b)	100	525	245	5
Mine	"									
Locust Coal Co.	"	366,916	-	44,951	2,237	414,104 (a,f)	4,850	299,475	189	835
Weston (B)	"	87,869	-	10,965	546	99,380 (b)	105,950	-	189	64
Bazley Stripping	"	17,545	-	2,189	109	19,843 (b)	17,950	-	189	20
Lubrecht	"	17,189	-	2,145	107	19,441 (b)	13,200	-	80	15
Yacino	"	46,972	-	5,862	292	53,126 (b)	-	-	189	49
Kurchock	"	536,491	-	66,112	3,291	605,894	141,950	299,475	983	21
Total for Co.										
Mallio Coal Co.	"	6,317	2,739	46	-	9,102 (e)	700	11,025	240	8
Mine	"									
Meusky Coal Co.	"	146	-	15	1	162 (b)	-	100	65	5
Mine	"									



Twenty-First District

TWENTY-FIRST DISTRICT											
Operators & collieries	County	Production - net tons				Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal accidents dis-abled 60 days or more
		Shipped to market		Used at							
		By railroad	By truck	Sold to local	Used at colliery and steam production						
Adelphi Coal Mining Co.	Schuyl.	91,963	-	-	-	91,963 (c)	-	128	38	-	-
Washery (B)											
Banks Construction Co.	"	750	50	-	-	800 (b)	-	10	12	-	-
Stripping											
Borelli Coal Co.	"	500	120	-	-	620 (h)	-	15	9	-	-
Mine							400				
Bosack Coal Co.	"	7,330	1,600	124	-	9,054 (h)	200	137	17	-	-
Mine											
Branch Coal Corp.	"	1,890	325	-	35	2,250 (a)	300	15	29	-	-
(B)											
B. & W. Coal Co.	"	4,160	7,601	820	-	12,581 (a)	-	280	5	-	-
Breaker (d) (B)											
Cano, Ray	"	3,250	707	50	-	4,007 (h)	-	80	8	-	-
Mine (t)											
Chornack Bros.	"	200	80	-	-	280 (h)	-	67	5	-	-
Mine (t)											
Dantas, Alfred	"	6,920	3,060	502	-	10,482 (h)	650	283	10	-	-
Mine											
DiRenzo Coal Co.	"	2,056	4,752	840	8	7,656 (a)	-	238	5	-	-
Breaker (d) (B)											
Downtown Coal Co.	"	2,607	4,235	1,525	15	8,382 (a)	-	148	9	-	-
Breaker (d) (B)											
Falls Coal Co.	"	2,240	3,100	188	-	5,528 (h)	-	279	9	-	-
Mine							6,500				
Farley & Laychack	"	6,985	13,970	6,985	-	27,940 (e)	-	280	18	-	-
Mine											
Fegley & Tretter	"	4,200	1,485	200	-	5,885 (h)	-	247	8	1	-
Mine							6,500				
Cauntlett, Roy, & Co.	"	-	1,350	-	-	1,350 (h)	-	195	5	-	-
Mine											
Contarck Coal Co.	"	4,110	1,228	200	-	5,538 (h)	350	81	14	-	-
Mine											
G. W. B. Coal Co.	"	3,550	5,186	150	-	8,886 (h)	-	292	9	-	-
Mine							6,000				
Hamilton Construction Co.	"	8,500	4,555	450	-	13,505 (t)	-	79	21	-	-
Stripping											
Herb, Austin, & Co.	"	2,480	896	220	-	3,596 (q)	-	217	6	-	-
Mine							4,350				

TWENTY-FIRST DISTRICT, CONTINUED

Operators & collieries	County	Shipped to market :			Production - net tons			Total production :	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents
		By railroad	By truck	By local	Sold to colliery	Used at steam and heat	Used at							
Herb & Reed Mine	Schuyl.	8,455	3,534		450	200		12,639 (j)	-	11,225	260	7	-	-
Herman, Carl, & Co. Mine	"	-	1,472	-	-	-	-	1,472 (h)	-	275	141	6	-	-
Hoffman Bros. Stripping (v)	"	900	250	-	-	-	-	1,150 (k)	-	-	38	15	-	-
Indian Head Coal Co. Indian Head (B)	"	114,199	30,891	5,760	1,006	-	-	151,856 (a)	-	71,100	199	300	-	8
Keifer, Lawrence Mine	"	4,300	2,200	1,145	-	-	-	7,645 (h)	-	2,700	251	8	-	-
Kozura, Mike Mine	"	-	920	-	-	-	-	920 (h)	-	600	104	5	-	-
Kreiser Coal Co. Mine (w)	"	820	590	50	-	-	-	1,460 (j)	-	375	143	5	-	-
L. & C. Coal Co. Stripping (x)	"	2,159	331	68	-	-	-	2,558 (k)	-	-	23	12	-	-
Lehman, Marlin Mine	"	7,440	3,445	300	-	-	-	10,885 (j)	-	975	208	7	-	-
Lengle, Luther Mine	"	6,200	2,100	26	-	-	-	8,326 (j)	-	-	264	7	-	-
Live Oak Coal Co. Breaker (d) (B)	"	19,887	31,019	28,502	140	-	-	79,548 (a)	-	-	280	12	-	-
Macario, John Mine (t)	"	200	47	-	-	-	-	247 (l)	-	50	63	6	-	-
McHale & Santor Stripping (y)	"	17,330	5,020	400	-	-	-	22,750 (j)	-	600	61	15	-	-
Morgan, Irvin Stripping	"	3,250	2,120	316	-	-	-	5,686 (f)	-	19,000	100	12	-	-
M. & S. Coal Co. Mine	"	119,477	18,055	4,000	800	-	-	142,255 (m)	-	500	206	253	-	7
M. V. M. Coal Co. Mine (z)	"	920	320	15	-	-	-	1,255 (h)	-	1,200	45	6	-	-
Phoenix Coal Co. Phoenix (B)	"	185,949	45,471	6,596	546	-	-	238,562 (a)	-	6,500	207	392	-	7
Polinsky, John Mine (ab)	"	1,250	500	77	-	-	-	1,827 (h)	-	1,850	72	5	-	-

Twenty-First District, Continued

TWENTY-FIRST DISTRICT, CONTINUED											
Operators & collieries	County	Production - net tons				Total production	Pounds dynamite used	Pounds permissible explosives used	Days worked	Fatal accidents	Non-fatal accidents
		Shipped to market		Used at							
		By railroad	By truck	Sold to local trade	Used at colliery for steam and heat						
Reilly, Chas. L. Banks (u)	Schuyl.	47,941	-	-	-	47,941 (c)n	-	-	95	5	-
Reilly, Eugene, & Co. Mine	"	-	840	-	-	840 (h)	-	700	110	5	-
Reiner & Shellhammer Mine	"	4,220	1,500	290	-	6,010 (j)	-	100	230	9	-
Reminger Coal Co. Mine	"	9,135	2,931	-	81	12,147 (o)	-	16,500	215	22	-
Rickert Bros. Mine	"	5,180	2,500	58	-	7,738 (j)	-	5,000	265	6	-
Robottom, James Mine	"	4,240	2,500	120	-	6,860 (l)	-	3,000	240	7	-
Rushanan & Sons Mine	"	3,720	1,266	-	-	4,986 (h)	-	5,000	262	5	-
Salem, James Mine	"	1,530	2,400	108	-	4,038 (h)	-	1,400	234	5	-
Schrader Coal Co. Breaker (d) (h)	"	-	-	-	-	-	-	-	114	35	-
Sherman Mountain Coal Co. Mine	"	5,300	3,500	136	-	8,936 (h)	-	2,000	234	10	-
Silverton Coal Co. Washery (w) (h)	"	12,800	1,054	-	-	13,854 (c)	-	-	94	26	-
Swatara Coal Co. Breaker (d)	"	69,479	38,225	4,000	-	111,704 (a)	-	-	276	17	-
Usay, Frank Mine	"	-	2,094	-	-	2,094 (h)	-	2,000	285	5	-
T. & T. Construc. Co. Panks	"	51,600	30,035	-	-	81,635 (p)	-	-	185	15	-
Vertz, Elmer Mine	"	14,797	869	-	-	15,666 (r)	-	75	151	36	-
Williams Stripping Co. Stripping	"	47,267	-	-	-	47,267 (r)	-	115,500	132	83	-
Zerbe & Griffith Mine	"	5,400	4,000	151	-	9,551 (h)	-	550	224	10	-
Grand total		928,959	295,999	64,822	2,831	1,292,611	-	181,350	474,985	1,611	1
											22

(B) Breaker

TWENTY-FIRST DISTRICT, CONTINUED

(a) Deep mined coal	(n) Coal shipped unprepared
(b) Stripping coal	(o) Coal prepared at Indian Head breaker
(c) Bank coal	(p) 13,096 tons prepared at Westwood and 68,539 tons at M. & W. breaker
(d) Preparation plant. Coal from small mines	(q) Coal prepared at Lamar breaker. 27th district
(e) Coal prepared at Live Oak breaker	(r) Coal prepared at Lohb, 19th district, and Westwood, 25th district
(f) " Schrader "	(t) Discontinued operation in May
(g) " Lohb " 19th district	(u) " " " September
(h) Various breakers	(v) " " " February
(i) Coal prepared at six different breakers	(w) " " " August
(j) " " Stevens (Westwood) breaker, 25th district	(x) " " " April
(k) " " Branchdale (Otto) "	(y) " " " June
(l) " " Phoenix "	(z) " " " March
(m) " " Schrader "	(ab) " " " July
54 Operators in district	Deep mined coal - 963,502 tons
54 Operations "	Stripping " - 93,716 "
39 Mines "	Bank " - 235,393 "

THIRTY-SECOND DISTRICT

R. O. Schneider, Inspector  
216 N. Ninth Street  
Ashtand, Penna.

Operators & collieries	County	Production - net tons				Total production	Pounds dynamite used	Pounds permissible explosives used	Days worked	Fatal accidents	Non-fatal accidents
		Shipped to market by	Sold to	Used at colliery	By local steam and heat						
		By railroad	By truck	By trade	By heat						
Rarzak Coal Co.	Schuyl.	1,394	349	-	-	1,743 (a)	-	2,350	187	5	-
Bender Coal Co.	"	6,108	-	-	-	6,108 (b)	-	4,200	198	5	-
C. O. & W. Coal Co.	Columbia	12,841	-	-	-	12,841 (c)	-	11,300	209	20	2
Centralia Mining Co.	Columbia	106,007	17,115	1,525	-	124,647 (d)	-	77,875	177	144	1
Stripping	"	62,793	-	-	-	62,793	-	16,860	177	17	-
Bank	"	3,166	-	-	-	3,166	-	-	177	6	-
Total for Co.		171,966	17,115	1,525	-	190,606	-	94,735	37,500	167	1
Columbia Coal Co.	Schuyl.	5,840	-	17,547	-	23,387 (e)	-	-	241	8	-
Dyazel Coal Co.	"	7,654	1,913	-	-	9,567 (a)	-	14,350	205	11	-
Fisher Coal Co.	"	58,266	-	-	-	58,266 (r)	-	-	336	9	-
Washery (w)	"	25,005	13,060	654	500	39,239 (a)t)	-	43,975	72	328	4
Gilberton Coal Co.	"	141,301	52,512	12,596	31,934	238,343 (t)	-	301,489	200	638	1
Packer #5 (s)	"	120,048	-	-	-	120,048	-	875	200	76	-
Hammond Coal Co.	"	17,106	-	-	-	17,106	-	-	200	12	-
Hammond Stripping	"	272,455	52,512	12,596	31,934	375,497	-	727,681	726	1	10
Bank	"	27,145	25,060	10,829	431	63,465 (f)	-	156,125	197	455	4
Total for Co.		54,290	48,995	21,659	861	125,805 (f)	-	-	-	-	-
Hazle Brook Coal Co.	Schuyl.	35,299	-	-	-	35,292 (f)	-	-	197	74	-
Continental )	Columbia	52,635	-	-	-	52,635 (f)	-	-	-	-	-
" Stripping	Schuyl.	-	-	-	-	-	-	-	-	-	-
" "	"	-	-	-	-	-	-	-	-	-	-
Mid Valley (b)	Columbia	10,101	-	-	-	10,171 (f)	-	17,265	203	108	-
" "	"	172,470	74,055	32,488	1,965	287,978	-	326,615	57	23	-
Total for Co.		-	-	-	-	-	-	-	660	-	-
Hill Vue Coal Co.	Schuyl.	-	8,755	-	-	8,755 (t)g)	-	-	252	5	-
Hill Vue (f)	"	33,662	-	-	-	33,662 (r)	-	-	275	10	-
Jonathan Coal Co.	"	6,711	-	-	-	6,711 (h)	-	-	177	7	-
Barry (w)	"	-	-	-	-	-	-	-	-	-	-
Lombardo Coal Co.	"	-	-	-	-	-	-	-	-	-	-
Stripping (q)	"	-	-	-	-	-	-	-	-	-	-

TWENTY-SECOND DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Pounds dynamite used	Pounds black powder used	Pounds permissible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents
		Shipped to market	Sold	Used at	Total							
		By railroad	By truck	to colliery for steam and heat	production							
Mammoth Coal Co.	Schuyl.	152,628	-	541	1,969	155,138 (u)	-	1,856,700	146,700	138	285	6
Morris Ridge Coal Co.	Columbia	131,489	-	-	-	131,489 (j)	-	144,900	-	217	114	-
Otto Collieries Co.	Schuyl.	-	-	-	-	-	-	-	184	200	-	1
Oakland (B)												
Philadelphia & Reading												
Coal & Iron Co.												
Hunter Tunnel	"	37,321	-	-	-	37,321 (k)	-	18,850	35,825	179	103	4
East Stripping	"	143,204	2,357	1,800	-	147,361 (k)	-	560,069	-	179	75	-
East Bank	"	13,790	-	-	-	13,790 (l)	-	-	54	54	8	-
Potts )	Schuyl.	87,109	-	13,948	-	101,057 (m)	-	25,278	60,915	175	247	-
" )	Columbia	100,009	-	16,013	-	116,022 (m)	-	29,022	69,935	175	289	1
" Stripping	Columbia	100,653	-	-	-	100,653 (m)	-	312,928	-	175	42	3
" Northumbd.	Columbia	102,823	-	-	-	102,823 (m)	-	319,672	-	175	42	-
" Bank	Columbia	124,970	-	-	-	124,970 (k)	-	-	-	175	15	-
" Bank	"	15,800	-	-	-	15,800 (m)	-	-	-	175	10	-
Keystone Bank	"	15,800	-	-	-	15,800 (m)	-	-	-	175	10	-
Total for Co.		725,679	2,357	31,761	759,797	-	-	1,265,819	166,675	831	1	7
Pine Ridge Mining Co.	Schuyl.	81,282	7,606	200	-	93,118 (n)	-	-	-	271	31	-
Millersville (B)												
Raven Run Coal Co.	Columbia	256,513	-	2,483	-	258,996 (f)	-	( 330,525	61,200 )	207	379	10
German town )	Northumbd.	60,100	-	-	-	60,100 (f)	-	-	-	207	173	-
" )	Schuyl.	43,390	-	-	-	43,390 (f)	-	-	-	207	53	-
" Stripping	Columbia	43,474	-	672	-	44,146 (f)	-	-	-	207	35	-
" Northumbd.	Northumbd.	23,113	-	-	-	23,113 (f)	-	( 436,435	-	207	17	-
" " "	Schuyl.	30,930	-	-	-	30,930 (f)	-	-	-	207	17	-
Total for Co.		457,520	-	3,155	-	460,675	-	766,960	61,200	674	-	10
Susquehanna Collieries Div.												
M. A. Hanna Co.	Columbia	146,054	-	-	-	146,054 (o)	-	143,200	-	191	65	2
Logan Stripping												
Swilp Coal Co.	Schuyl.	5,092	-	-	-	5,092 (a)	-	-	7,525	120	9	-
Mine	"	19,134	-	-	-	19,134 (h)	-	-	4,650	254	9	-
Tarrone Coal Co.												
Stripping												



TWENTY-SECOND DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons			Total production	Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used	Days worked	Fatal accidents	Non-fatal accidents
		Shipped to market	By railroad	Used at colliery							
		By truck	By trade	to local steam and heat							
Tunnel Coal Co.	Schuyl.	8,932	-	-	8,932 (l)	-	-	16,000	254	17	-
Wentzel Coal Co.	Columbia	5,232	-	-	5,232 (p)	-	-	7,200	235	7	-
Zimmerman Coal Co.	Schuyl.	13,301	-	-	13,301 (h)	-	-	-	190	12	-
Stripping											
Grand total		2,533,715	175,385	71,738	71,464	2,852,322	- 5,370,585	959,339		4215	6
(B) Breaker											
(a) Coal prepared at Gilberton breaker, 20th district											
(b) " " " " " "											
(c) " " " " " "											
(d) Includes 64,929 tons purchased from small mines.											
(e) " " " " " "											
(f) Coal prepared at Mid Valley breaker											
(g) Coal purchased from small mines											
(h) Coal prepared at Weston (20th district), and Natalie (23rd district)											
(i) Formerly known as Raven Hill breaker											
(j) Coal prepared at											
(k) Coal prepared at Oakland (22nd) & Locust Summit (23rd)											
(l) " " " " " "											
(m) " " " " " "											
(n) Includes 58,679 tons purchased from small mines and 34,439 tons bank coal											
(o) Coal prepared at Glen Burn breaker, 24th district											
(p) " " " " " "											
(q) Discontinued operation in October											
(r) Bank coal											
(s) Discontinued operation in May, after a mine fire											
(t) Deep mined coal											
(u) Stripping											
25 Operators in district											
40 Operations " "											
25 Mines											

John P. Brophy, Inspector  
422 W. Third Street  
Mt. Carmel, Penna.

John P. Brophy, Inspector  
422 W. Third Street  
Mt. Carmel, Penna.

Operators & collieries	County	railroad	truck	trade	and heat	production :	used	used	worked	eyes	dents	or more
Beadle & Rick Penna. Silt Bank	Northumbd.	-	100,116	-	-	100,116 (a)	-	-	212	12	-	-
Brass Coal Co. Mine	"	-	3,855	-	-	3,855 (b)	-	7,900	216	7	-	-
Cullen Coal Co. Banks	"	-	136,839	-	-	136,839 (c)	-	-	358	8	-	-
Exchange Coal Co. Breaker (B)	"	35,000	1,500	500	-	37,000 (d)	-	-	232	7	-	-
Fetterman & Co. Mine	"	-	2,524	-	-	2,524 (e)	-	725	231	7	-	-
Ibanez & Dallibrida Mine	"	-	2,940	-	-	2,940 (g)	-	5,700	204	7	-	-
Keiser, J. B., & Son Silt Bank	"	-	54,818	-	-	54,818 (f)	-	-	358	5	-	-
Little & Shecora Silt Bank (m)	"	-	23,727	-	-	23,727 (a)	-	-	98	8	-	-
Logan Creek Constr. Co. Stripping	"	-	29,848	-	-	29,848 (h)	-	1,200	164	21	-	-
Natalie Coal Corp. Natalie (B)	"	82,814	-	8,005	785	91,604 (d)	-	15,000	135	117	-	-
Brennan Mine (o)	"	388	-	38	4	430 (i)	-	125	14	10	-	-
Morris Ridge Strip. Columbia	"	102,359	-	10,037	811	113,207 (i)	-	144,900	222	153	-	-
Total for Co. Philadelphia & Reading Coal & Iron Co.	"	185,561	-	18,080	1,600	205,241	-	159,900	15,125	280	-	-
Locust Summit Alaska	" (B) Northumbd.	210,483	12,480	8,326	4,342	235,631 (d)(k)	-	-	175	274	1	-
Independents	"	18,995	1,500	765	-	21,260 (d)(k)	-	-	175	559	10	-
Locust Gap	"	526,000	30,603	20,450	12,003	589,056 (d)(k)	-	132,200	175	37	-	-
" Strip. A-40	"	5,260	326	210	-	5,796 (k)	-	20,984	175	1309	-	16
" A-44	"	21,964	1,297	866	-	24,127 (k)	-	251,815	39	22	-	-
" Banks	"	89,706	5,320	3,550	-	98,576 (k)	-	-	92	49	-	-
Monitor Stripping	"	190,500	10,600	7,857	-	208,957 (k)	-	1,420,300	175	10	-	-
Reliance	"	160,843	9,550	6,350	10,095	186,838 (d)(k)	-	20,975	203	214	-	2
Total for Co. Pioneer Construc. Co.	"	1,223,751	71,676	48,374	26,440	1,370,241	-	20,975	175	497	1	4
Alaska Bank (p)	"	80,084	-	-	-	80,084 (j)	-	1,816,274	456,852	2971	2	32
									76	13	-	-

TWENTY-THIRD DISTRICT, CONTINUED

[illegible]

16 Operators in district  
33 Operations "  
33 Mines "

Deep mined coal	-	1,212,624 tons
Stripping "	-	467,733 "
Bank "	-	494,160 "

TWENTY-FOURTH DISTRICT

Jos. R. Ruane, Inspector  
922 Washington Street  
Shamokin, Penna.

Operators & collieries	County	railroad	truck	trade	heat	production	used	consumed	days worked	accidents	60 days or more
B. & P. Coal Co. Black Bear (b)	Northumbd.	-	1,400	-	-	1,400 (a)c	-	200	60	8	-
Boslego Coal Co. Boslego	"	-	18,028-	-	-	18,028 (c)d	-	10,000	305	18	-
Bridy, Inc. Stripping	"	-	20,000	-	-	20,000 (e)	-	500	130	24	-
Dancott Coal Co. Dancott (B)h	"	9,157	-	6,565	300	16,022 (c)	-	-	250	10	1
Dark Corners Coal Co. Breaker (B)h	"	1,186	5,300	235	25	6,746 (c)	-	-	295	5	-
Diminick Coal Sales Co. Breaker (B)h	"	15,832	26,607	-	-	42,439 (c)	-	-	300	6	-
D. & Z. Coal Co. Breaker (B)h	"	15,020	34,712	3,055	48	52,835 (c)	-	-	272	10	-
Foieri & Louis Breaker (B)h	"	26,234	1,487	5,049	50	32,820 (c)	-	-	259	7	-
Hoover Coal Mining Co. Breaker (B)h	"	65,152	-	-	-	65,152 (c)	-	-	307	13	-
Johnson Coal Sales Co. Breaker (B)h	"	1,736	-	2,167	-	3,903 (c)	-	-	82	9	-
Jonathan Coal Mng. Co. Washery (B)h	"	178,030	-	1,200	1,600	180,830 (c)	-	-	300	36	-
K. & D. Coal Co. Breaker (B)h	"	1,850	20,991	400	-	23,241 (c)	-	-	221	5	-
Latscha Coal Co. Latscha	"	-	7,361	-	-	7,361 (f)c	-	9,875	263	10	-
Level Coal Co. Mine	"	15,057	-	-	-	15,057 (g)	-	4,200	178	27	-
Little Chief Coal Co. Mine	"	-	5,389	-	-	5,389 (h)	-	1,800	230	6	-
Lower Region Coal Co. Breaker (B)h	"	7,330	29,170	-	200	36,700 (c)	-	900	281	21	-
Maurer Coal Sales Co. Breaker (B)h	"	2,100	4,000	835	-	6,935 (c)	-	-	159	7	-
Mutual Coal Co. Mutual (B)	"	-	-	8,793	-	8,793 (c)	-	2,100	266	14	-
Oak Coal Yard Breaker (B)h	"	-	25,250	-	-	25,250 (c)	-	-	289	8	-

TWENTY-FOURTH DISTRICT, CONTINUED

TWENTY-FOURTH DISTRICT, CONTINUED												
Operators & collieries	County	Production - net tons				Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- ability 60 days or more
		Shipped to market		Used at								
		By	truck	to colliery local for steam and heat	black powder production							
Philadelphia & Reading Coal & Iron Co.	Northumbd.	88,724	-	-	-	-	121,700	-	151	39	-	-
Hepburn Stripping	"	14,013	-	-	-	-	327,863	-	75	22	-	-
" " S-3A "	"	93,306	-	-	-	-	21,950	-	176	43	-	-
Enterprise Pump. Sta.	"	-	-	-	-	-	-	-	240	3	-	-
Henry Clay Bank	"	136,182	-	-	-	-	-	-	24	29	-	-
Total for Co.		332,225	-	-	-	-	471,513	-	-	136	-	-
Quality Coal Sales Co.	"	-	1,800	640	-	-	-	-	139	5	-	-
Breaker (B)h	"	-	-	-	-	-	-	-	-	-	-	-
Reidinger Coal Service	"	2,458	20,078	300	25	22,861 (c)	-	-	263	7	-	-
Breaker (B)h	"	-	-	-	-	-	-	-	-	-	-	-
Rosini Coal Co.	"	38,149	9,747	4,986	60	52,942 (d)	13,400	-	231	32	-	-
Breaker (B)h	"	-	-	-	-	-	-	-	-	-	-	-
Sharp Coal Sales Co.	"	-	5,750	-	-	5,750 (c)	-	-	271	5	-	-
Breaker (B)h	"	-	-	-	-	-	-	-	-	-	-	-
Stanley Coal Co., Inc.	"	20,375	6,500	-	20	26,895 (c)	-	-	306	12	-	-
Washery (B)h	"	-	-	-	-	-	-	-	-	-	-	-
Steam Coals, Inc.	"	-	-	-	-	-	-	-	-	-	-	-
Breaker (B)h	"	-	-	-	-	-	-	-	177	51	-	1
North Line Drift	"	-	-	-	-	-	8,866	13,298	177	52	-	1
Hickory Strip.	"	-	-	-	-	-	13,974	9,316	175	29	-	-
Level Mine	"	-	-	-	-	-	-	-	(k)	-	-	-
Shamokin Excav. Strip.	"	-	-	-	-	-	1,980	-	19	30	-	-
Reiner Mine	"	-	-	-	-	-	-	185	67	8	-	-
Burnside Bank	"	-	-	-	-	-	-	-	66	11	-	-
Total for Co.		164,586	4,468	1,490	-	170,544	24,820	22,799	-	181	-	2
Stevens Coal Co.	"	-	-	-	-	-	-	-	-	-	-	-
Trevorton (B)h	"	-	-	-	-	-	691,475	-	171	177	-	4
A.F. Dick Stripping	"	-	-	-	-	-	244,200	-	171	128	-	-
Capparell	"	-	-	-	-	-	-	-	34	30	-	-
Foieri	"	-	-	-	-	-	2,144	-	171	15	-	-
Kessler Bank	"	-	-	-	-	-	-	9,000	171	56	-	-
Kettle Mine	"	-	-	-	-	-	-	146	146	24	-	-
North Buck Mine	"	-	-	-	-	-	-	6,200	146	20	-	-
West End Mine	"	-	-	-	-	-	-	6,300	146	11	-	-

## TWENTY-FOURTH DISTRICT, CONTINUED

[illegible]

(e) Coal prepared at Natalie breaker, 23rd district  
 (f) " " Reidinger "  
 (g) " " Locust Summit breaker, 23rd district  
 (h) " " Diminick breaker  
 (i) Shipped unprepared  
 (j) Stripping coal

TWENTY-FOURTH DISTRICT, CONTINUED

TWENTY-FOURTH DISTRICT, CONTINUED												
Operators & collieries	County	Production - net tons				Total production	Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used	Days worked	Fatal accidents	Non-fatal accidents
		Shipped to market		Used at								
		By railroad	By truck	By local	to colliery							

(k) Included in breaker figures

(l) Coal prepared at Trevorton breaker

(m) " " Zerbe

(n) Coal prepared at Glen Burn breaker

(o) Includes 16,357 tons mine coal and 3,200 tons stripping coal

30 Operators in district

62 Operations "

35 Mines

Deep mined coal - 1,421,089 tons  
Stripping " - 734,958 "  
Bank " - 797,097 "

TWENTY-FIFTH DISTRICT

Gordon E. Smith, Inspector  
760 Main Street  
Lykens, Penna.

Fanks, Jos., Constr. Co.

Stripping Schuyl.

Bixler, Oscar

Mine " "

Blyler, Roy (B)✓

Brown, Robert

Mine " "

Outler, Steven

Mine " "

Deaven, David

Oakwood (B)✓

Deaven, Francis

Mine " "

Erdsman Bros.

Mine " "

Ecco Mfg. Co.

Bank " "

Fronk, George

Stripping " "

67,320	9,825	1,316	558	79,019 (a)u	-	44,642	-	206	30	-	-	-
2,150	511	-	27	2,688 (b)	-	-	1,775	207	6	-	-	-
-	-	-	-	-	-	-	-	246	9	-	-	-
4,685	654	71	38	5,448 (c)	-	-	5,000	268	9	-	-	-
4,154	711	69	34	4,968 (d)	-	-	4,250	102	13	-	-	-
-	-	-	-	-	-	-	-	211	9	-	-	-
18,455	2,575	279	150	21,459 (c)	-	-	1,000	148	28	-	-	-
7,571	1,764	27	88	9,450 (e)	-	3,000	2,300	273	10	-	-	-
338	46	6	4	394 (c)11	-	-	-	(w)	(w)	-	-	-
3,117	538	52	25	3,732 (f)	-	250	-	135	5	-	-	-



TWENTY-FIFTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- ability 60 days or more
		Shipped to market	By truck	Sold to colliery	Used at local for steam and heat						
Good Peoples Coal Co. Breaker (B)v	Dauphin	-	-	-	-	-	-	283	8	-	-
Goodspring Contr'g. Co. Stripping	Schuyl.	6,708	4,652	273	31	11,664 (g)	5,325	78	10	-	-
Hents, Reuben Mine	"	8,950	3,762	149	93	12,954 (h)	-	251	13	-	-
Herb, Allen Mine	"	207	5,929	113	23	6,272 (i)	5,300	287	8	-	-
Herring & Spanceake Mine	"	5,696	795	86	46	6,623 (c)	-	254	7	-	-
High Test Coal Co. Mine	"	2,362	8,400	2,309	53	13,124 (j)	20,000	285	14	-	2
Hinchey & McMinley Stripping	"	25,052	10,322	1,082	182	36,638 (k)	10,800	290	28	-	-
Huss, George Stripping	"	84,349	11,770	1,275	686	98,080 (c)	136,200	198	43	-	-
Jonathan Coal Co. Breaker (B)	Lebanon	21,763	-	-	-	21,763 (l)(x)	-	226	7	-	-
Kocher, Leon Valley View (B)v	Schuyl.	-	-	-	-	-	-	287	10	-	-
Legal Coal Co. (B)v Legal	"	-	-	-	-	-	-	295	13	-	-
Markson Coal Co. Markson (B)	"	61,023	86,958	4,577	350	152,908 (y)	109,675	190	314	1	3
Martin & Keating Red Oak (B)v	"	-	-	-	-	-	-	184	9	-	-
Miller, Daniel Mine	"	1,994	999	56	15	3,064 (m)	2,500	101	6	-	-
Miller, Franklin Breaker (B)v	"	-	-	-	-	-	-	221	21	-	-
Miller, Robert Mine	"	3,074	429	46	25	3,574 (c)	4,200	190	8	-	-
Moran, Francis Mine	"	534	75	8	4	621 (c)	100	16	12	-	-
Morgan, Roy Mine	"	3,670	512	55	30	4,267 (c)	3,960	174	7	-	-



TWENTY-FIFTH DISTRICT, CONTINUED

TWENTY-FIFTH DISTRICT, CONTINUED													
Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- ability 60 days or more
		Shipped to market		Used at									
		By railroad	By truck	Sold to	colliery for steam and heat								
Moyer, Lloyd Mine	Schuyl.	2,689	1,516	101	19	4,325 (n)	-	-	10,400	238	11	-	-
Otto Miners Mine	"	543	6,122	105	26	6,796 (x)	-	4,350	2,100	258	11	-	1
Philadelphia & Reading Coal & Iron Co.	"	-	-	-	-	-	-	43,850	500	232	44	-	-
Porter Tunnel	"	16,917	-	-	-	16,917 (#)	-	-	-	20	22	-	-
Brookside Bank	"	140,297	-	-	60	140,357 (1)	-	-	-	143	82	-	-
Sheridan (B)	"	10,479	1,461	158	85	12,183 (c)	-	-	-	-	-	-	-
Bank Screenings	"	167,693	1,461	158	145	169,457 (p)	-	43,850	500	-	118	-	-
Total for Co.													
Pine Creek Coal Co. Breaker (B)v	"	-	-	-	-	-	-	-	-	238	14	-	-
Potts, Allen Stripping	"	1,279	178	19	11	1,487 (c)	-	200	-	25	5	-	-
Raudenbush, Joseph Mine	"	1,421	198	22	12	1,653 (c)	-	-	3,050	88	6	-	-
Reilly, Chas. L. Bank	"	1,486	207	23	12	1,728 (c)	-	-	-	16	8	-	-
Rhoads Contr'g. Co. Franklin-Lykens (B)	Dauphin	47,641	8,269	5,401	78	61,389 (1)	-	-	-	209	75	-	3
Rigdoosh, George, & Co. Mine	Schuyl.	5,886	1,283	18	68	7,255 (q)	-	-	9,850	235	7	-	-
Sanchez, Alonzo Stripping	"	3,257	2,933	137	15	6,342 (r)	-	3,000	-	75	10	-	-
Scheib & Leitzel Stripping	"	3,130	437	47	25	3,639 (c)	-	-	1,600	121	5	-	-
Schneck, Thomas Breaker (B)v	"	-	-	-	-	-	-	-	-	248	10	-	-
Schumacher, J. E. & Son Stripping	"	65,203	9,098	986	530	75,817 (c)	-	79,644	-	174	35	-	-
Schwalm, William Mine	"	2,497	5,586	267	11	8,361 (s)	-	-	10,400	250	10	1	1
Shade, John Stripping	"	2,516	351	38	20	2,925 (c)	-	700	-	45	5	-	-
Shade, Lawrence Mine	"	9,353	1,305	142	76	10,876 (c)	-	-	3,900	303	8	-	-

TWENTY-FIFTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- ability. 60 days or more
		Shipped to market by	Sold to colliery	Used at local for steam	Trade and heat							
Stevens Coal Co.	Schuyl.	-	-	-	-	(%)	- 350	-	165	173	-	2
Westwood (B)V	"	7,464	1,773	-	93	9,330 (b)	550	8,000	223	16	-	-
Mine	"	7,091	2,444	174	53	9,462 (t)	-	4,250	222	19	-	-
Zimmerman, Ray	"	3,433	479	52	28	3,992 (c)	-	2,625	100	8	-	-
Mine	"	665,754	194,567	19,539	3,684	883,544	-	364,571	218,810	1241	2	12
Grand total												
(B) Breaker												
(a) 763 tons prepared at Markson breaker, 3,584 tons at Franklin-Lykens, 74,672 tons at Westwood breaker												
(b) Coal prepared at Lamar breaker, 27th district												
(c) " Westwood breaker												
(d) 256 tons prepared at Markson and 4,712 tons at Westwood breaker												
(e) 1,695 tons prepared at Westwood, 7,617 tons at Lamar (27th), and 138 tons at Roy Blyler breaker												
(f) 200 " " Markson and 3,532 tons at Westwood breaker												
(g) 7,212 " " " 4,363 " " " and 89 tons at Lamar (27th)												
(h) 3,161 " " " 1,567 " " " 7,880 " " " 197 tons at Legal & 149 tons at miscellaneous small brkrs.												
(i) 494 " " " 5,566 " " " Leon Kocher, 53 " " " & 159 " " "												
(j) Coal prepared at Legal breaker												
(k) 446 tons prepared at Legal, 12,653 tons at Markson, 4,157 tons at Franklin-Lykens and 19,382 at Westwood breaker												
(l) Bank coal												
(m) 162 tons prepared at Roy Blyler breaker, 169 tons at Leon Kocher breaker, 815 tons at Markson, 1,844 tons at Westwood and 74 tons at Lamar												
(n) 389 tons prepared at Martin & Keating, 1,673 tons at Franklin Miller, 1,139 tons at Westwood and 1,124 at Lamar												
(o) 5,664 tons " " Leon Kocher, 458 tons at Markson, 450 tons at Lamar, 224 tons at miscellaneous small breakers												
(p) 16,917 tons at Brookside of P. & R., 140,357 tons at Sheridan, and 12,183 tons at Westwood												
(q) 1,360 tons prepared at Westwood, 5,895 tons at Lamar												
(r) 3,784 tons prepared at Markson, 1,860 tons at Westwood, 179 tons at Lamar, 519 tons at miscellaneous " "												
(s) 4,930 " " Roy Blyler, 2,346 tons at Markson, 1,085 tons at Lamar												
(t) 7,558 " " Westwood, 1,904 " " Franklin Miller breaker												
(u) Includes 80 tons of bank coal												
(v) Preparation only												
(w) Included in Westwood breaker figures												
(x) This coal will be credited to Schuylkill County, as we have no Lebanon County compilations.												
(y) Includes 129,971 tons mine coal and 22,937 tons stripping coal												
(z) Coal prepared at Leon Kocher breaker												

TWENTY-FIFTH DISTRICT, CONTINUED

TWENTY-FIFTH DISTRICT, CONTINUED										Non-fatal accidents dis-
		Production - net tons						Pounds permiss-	Fatal ability	
		Used at						ible ex-	Empl- acci-	
		: Sold						plosives	days	
		: to colliery						used	worked	
		: local for steam						used	eyes	
		: trade and heat						used	or more	
		: production						used	or more	
Operators & collieries County										
(*) No production. Development work										
(#) Coal prepared at Brookside breaker, which was dismantled early in 1949										
(%) Stevens Coal Co., Westwood breaker, prepared 378,450 tons produced within the 25th district, shown under the various footnotes, 38,166 tons from mines employing less than five men, and 304,288 tons shipped in from other districts, a total of 720,904 tons.										
48 Operators in district										
51 Operations "										286,533 tons
29 Mines "										342,200 "
Bank										254,811 "
Deep mined coal										
Stripping "										
Bank										

(\*) No production. Development work

(#) Coal prepared at Brookside breaker, which was dismantled early in 1949

(\*) **Stewarts Coal Co., Westwood breaker,** prepared 378,450 tons produced within the 25th district, shown under the various footnotes, 38,166 tons from mines employing less than five men, and 304,288 tons shipped in from other districts, a total of 720,904 tons.

48 Operators in district  
51 Operations "  
29 Mines "

51 Operations "

29 Mines M

TWENTY-SIXTH DISTRICT

John B. Reinoehl, Inspector  
331 E. Mahanoy Avenue  
Mahanoy City, Penna.

31 E. Mahanoy Avenue

Mahanoy City, Penna.

Alpec Coal Co.

Park #1 Mine Schuyl.

Springdale Strip.

Total for Co.

Becker &amp; Co.

Mine

Biros &amp; Co.

Wine

Blaschak &amp; Co.

Mine

Boner & Co.

**Wine**

Brehony & Co.

Wine

Brokenshire & Co.

Wine

Dasey &amp; Co.

Mine

Dern Coal Co.

**Mine**

Alpesc Coal Co.	Schuyler.	60,044	4,775	2,664	1,071	68,554 (a)	-	27,950	24,500	191	172	-
Park #1 Mine	"	82,420	7,823	4,265	3,360	97,868 (b)	-	203,680	6,900	228	73	1
Springdale Strip.	"	142,464	12,598	6,929	4,431	166,422	-	231,630	31,400	215	-	1
Total for Co.												
Becker & Co.	"	3,016	-	-	-	3,016 (c)	-	400	2,800	266	6	-
Biros & Co.	"	2,607	-	-	-	2,607 (c)	-	100	2,200	241	14	2
Blaschak & Co.	"	5,134	2,227	37	-	7,398 (d)	-	7,600	11,400	294	9	-
Boner & Co.	"	5,301	-	-	-	5,301 (c)	-	825	1,550	252	9	-
Brehony & Co.	"	4,907	2,128	36	-	7,071 (d)	-	5,200	10,400	148	11	-
Brokenshire & Co.	"	3,290	-	-	-	3,290 (c)	-	-	1,500	270	5	-
Dasey & Co.	"	-	2,755	-	-	2,755 (e)	-	500	2,000	192	5	-
Dern Coal Co.	"	3,491	-	-	-	3,491 (c)	-	400	775	123	20	1

TWENTY-SIXTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- abilty 60 days or more
		Shipped to market	By rail	By truck	Used at colliery							
Forgotsch & Co.	Schuyl.	1,372	-	-	-	1,372 (c)	75	650	273	5	-	-
Casparini Coal Mng. Co.	"	54,954	21,421	355	-	76,730 (f)	202,197	-	215	64	-	-
Georgetown	"	4,916	2,132	36	-	7,084 (d)	-	-	134	62	-	-
Various Banks	"	2,412	1,046	18	-	3,476 (d)	-	-	18	12	-	-
Hall & Co.	"	357	155	3	-	515 (d)	-	200	66	5	-	-
John Jones Coal Co.	"	-	6,566	-	-	6,566 (g)	100	2,100	274	6	-	-
Jones Coal Corp.	"	19,205	-	-	-	19,205 (h)	-	-	126	36	-	-
Buck Mtn. Stripping Cleaner Plant	"	-	-	-	-	-	-	-	51	7	-	-
Total for Co.		19,205	-	-	-	19,205	-	-	-	43	-	-
Kadelock & Co.	"	-	3,085	-	-	3,085 (1)	200	1,900	270	7	-	-
Keller & Co.	"	-	3,545	-	-	3,545 (e)	650	7,450	216	5	-	-
Kelly Construction Co.	"	600	-	-	-	600 (j)	-	-	31	6	-	-
Coxe Stripping	"	148,883	18,722	-	200	167,805 (p)k	-	-	264	44	-	-
Locust Valley Coal Co.	"	2,893	1,254	21	-	4,168 (d)	1,250	5,150	306	5	-	-
Mt. Hazel (B)	"	96,767	42,666	-	-	139,433 (d)	-	-	190	17	-	-
Matrishin & Co.	"	-	4,242	-	-	4,242 (1)	500	2,150	290	5	-	-
Makymik & Co.	"	13,741	872	248	-	14,861 (u)	-	-	100	55	-	-
Banks	"	31,337	1,989	565	500	34,391	38,000	-	205	27	-	-
M. & K. Coal Co.	"	31,491	1,998	569	-	34,058	5,000	4,000	208	36	-	-
Morea Mining Co. Breaker (B)	"	76,569	4,859	1,382	500	83,310	43,000	4,000	118	-	-	-
Morea Stripping New Boston	"	4,716	1,698	58	-	6,502 (1)	-	1,200	79	13	-	-
Jeff Noakes	"	-	-	-	-	-	-	-	-	-	-	-
P. & R. Stripping	"	-	-	-	-	-	-	-	-	-	-	-

TWENTY-SIXTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Fatal accidents	Non-fatal accidents
		Shipped to market by	Sold to colliery	Used at local for steam and heat	By truck							
N. Mahanoy Coal Co.	Schuyl.	7,834	-	-	-	7,834 (m)	-	-	4,650	165	31	1
N. Mahanoy Mine	"	72,493	5,846	1,416	-	83,053 (n)	-	1,075	65,500	180	168	-
Peca Coal Co.	"	273,224	-	-	-	273,224 (o)	-	-	-	178	44	-
Phoenix Contracting Co.	"	238,818	-	16,984	-	255,802 (j)	-	96,550	203,875	174	730	12
P. & R. Banks	"	173,040	-	-	-	173,040 (q)	-	423,200	-	224	146	-
Philadelphia & Reading Coal & Iron Co.	"	164,012	-	13,139	-	177,151 (j)	-	40,925	94,000	174	534	14
Knickerbocker Mine	"	513	-	-	-	513 (j)	-	-	-	28	14	-
Stripping	"	576,383	-	30,123	-	606,506	-	560,675	297,875	1424	1	26
Mahanoy City Mine	"	4,825	655	851	-	6,669 (r)	-	-	-	184	43	1
N. Mahanoy Bank	"	4,825	655	851	-	6,669	-	-	-	64	28	-
Total for Co.	"	-	-	-	-	-	-	-	-	71	-	1
Rhoads Contracting Co.	"	-	3,779	-	-	3,779 (g)	-	50	2,500	260	7	1
Park (B)v	"	2,587	1,122	-	-	3,728 (d)	-	350	4,000	284	9	-
Priamrose Stripping (t)	"	-	1,465	-	-	1,465 (g)	-	50	650	118	5	-
Total for Co.	"	13,438	-	-	-	13,438 (u)	-	-	-	122	47	-
Rymar & Co.	"	-	6,231	-	50	6,281	-	-	6,000	-	-	-
Mine	"	13,438	-	-	-	13,438 (u)	-	-	-	122	47	-
Simoes & Co.	"	13,438	6,231	-	50	19,719	-	-	6,000	47	-	-
Mine	"	3,989	1,730	-	-	5,718 (d)	-	-	2,450	190	10	-
Sincavage & Co.	"	-	8,206	-	-	8,206 (s)	-	-	-	296	5	-
Skytop Coal Co. (B)	"	-	6,140	-	-	6,140 (s)	-	-	-	115	6	-
Breaker	"	-	6,145	-	-	6,145 (s)	-	-	-	84	5	-
Skytop Mine	"	-	-	-	-	-	-	-	-	-	-	-
Total for Co.	"	1,538,657	172,418	12,559	37,571	1,761,205	-	1,056,827	4,472,450	2573	1	33
Valsuk & Co.	"	-	-	-	-	-	-	-	-	-	-	-
Mine	"	-	-	-	-	-	-	-	-	-	-	-
Masaika Bros. (B)	"	-	-	-	-	-	-	-	-	-	-	-
Breaker	"	-	-	-	-	-	-	-	-	-	-	-
Royal Anth. Coal Co., Inc. (B)	"	-	-	-	-	-	-	-	-	-	-	-
Breaker	"	-	-	-	-	-	-	-	-	-	-	-
Wessner Coal Co. (B)	"	-	-	-	-	-	-	-	-	-	-	-
Breaker	"	-	-	-	-	-	-	-	-	-	-	-
Grand total		1,538,657	172,418	12,559	37,571	1,761,205	-	1,056,827	4,472,450	2573	1	33

TWENTY-SIXTH DISTRICT, CONTINUED

TWENTY-SIXTH DISTRICT, CONTINUED					
		Production - net tons			
:	:	Sold	Used at	:	:
: Shipped to market :	: to colliery :	By :	local for steam :	Total :	
: By :	truck :	trade :	and heat production :		
Operators & collieries	County :	railroad			
(B) Breaker					
(a)	1,967 tons prepared at Morea breaker,	50,508 tons at Spring Mountain breaker, (16th), and 16,079 tons at Hazleton Shaft breaker, 18th district			
(b)	53,280 "	"	"	"	"
(c)	Coal prepared at Skytop breaker				
(d)	" " Gilberton "	(20th)			
(e)	" " Atkins				
(f)	71,162 tons prepared at Gilberton breaker (20th), and 5,568 tons at St. Nicholas breaker (20th)				
(g)	Coal prepared at Hillside breaker (19th), and Atkins breaker				
(h)	" " Otto	of Branchdale Coal Co., (27th)			
(i)	" " Hillside "	(19th)			
(j)	" " St. Nicholas "	(20th)			
(k)	3,074 tons re-prepared at Gilberton, and 6,917 tons at Millersville breaker of Pine Ridge Mining Co. (22nd)				
(l)	1,916 "	prepared at Morea breaker, and 4,586 tons at Gilberton			
(m)	Coal prepared at St. Nicholas "	(20th)			
(n)	62,228 tons prepared at Spring Mountain breaker (16th), and 20,825 tons at Hazleton Shaft breaker (18th)				
(o)	Coal prepared at Oakland breaker of Otto Collieries Co. (22nd)				
(p)	Bank coal				
(q)	167,128 tons prepared at St. Nicholas breaker, and 9,912 tons at Oakland breaker				
(r)	6,432 tons prepared at Hazleton Shaft breaker, and 237 tons at Spring Mountain breaker				
(s)	Preparation only. Mine coal				
(t)	Discontinued operation in May				
(u)	Mine coal, purchased				
(v)	Partial preparation				
(B) Operators in district					
47 Operations	"				
25 Mines	"				

TWENTY-SEVENTH DISTRICT

Harold Shomper, Inspector  
138 E. Lincoln Street  
Shanokin, Penna.

Operators & collieries	County	Production - net tons				Pounds dynamite used	Pounds permittible explosives used	Days worked	Fatal accidents	Non-fatal accidents
		Shipped to market by railroad	Sold to local colliery truck	Used at colliery and heat	Total production					
Alarcon, Frank	Schuyl.	6,458	905	24	8,304 (a)	2,500	18,600	243	11	-
Mine	"	-	-	-	210 (b)	-	200	16	5	-
Bainbridge, Wm.	"	-	-	-	-	-	-	-	-	-
Mine (#1)	"	-	-	-	-	-	-	-	-	-
Bowman & Diebert	"	-	3,438	50	3,488 (k)	595	2,355	213	6	-
Mine	"	-	-	-	-	-	-	-	-	-
Branchdale Coal Co.	"	18,685	2,860	591	22,137 (u)	41,400	-	117	125	1
Orto (B)	"	51,463	7,877	1,628	61,118	-	-	117	17	-
Bank	"	70,148	10,737	2,219	83,305	41,400	-	142	1	-
Total for Co.	"	101,030	3,560	544	108,771 (u)	80,475	19,375	161	348	4
Buck Run Colliery Co.	"	38,496	1,353	195	41,389	-	-	93	54	-
Buck Run (B)	"	31,200	1,100	1,151	33,610	2,500	-	120	12	-
" Stripping	"	38,800	1,370	198	41,800	200	5,300	145	30	-
Schuylkill	"	27,778	979	141	29,906	-	-	72	18	-
Pioneer	"	237,304	8,362	1,207	255,476	83,175	24,675	462	-	4
Bank	"	-	-	-	-	-	-	-	-	-
Total for Co.	"	-	2,392	-	2,392 (c)	-	2,500	227	7	-
C. M. & Z. Coal Co.	"	-	-	-	-	-	-	-	-	-
Mine	"	-	2,003	-	2,003 (c)	-	6,050	95	8	-
Cano Coal Co.	"	-	-	-	-	-	-	-	-	-
Mine	"	-	-	-	-	-	-	-	-	-
Dancott Coal Co., Inc.	"	2,910	9,821	11	12,742 (d)	1,575	6,075	281	19	-
Mine	"	-	-	-	-	-	-	-	-	-
Dando, Jos. P., Sr.	"	7,010	8,880	836	16,726 (e)	4,200	16,300	271	20	-
Mine	"	4,473	2,574	141	7,188 (e)	4,150	3,500	57	15	-
Stripping	"	11,483	11,454	977	23,914 (e)	8,350	19,800	35	-	-
Total for Co.	"	-	-	-	-	-	-	-	-	-
Dando & Novitsky	"	-	4,307	-	4,307 (f)	-	4,400	213	5	-
Mine	"	-	-	-	-	-	-	-	-	-
D'Attilio, Camillo	"	463	16	2	497 (g)	-	500	21	10	-
Mine (#2)	"	-	-	-	-	-	-	-	-	-
D. & D. Coal Co.	"	1,950	2,850	40	4,857 (k)	-	5,200	208	10	-
Mine	"	-	-	-	-	-	-	-	-	-
Deitrick & Troup	"	-	-	-	-	-	4,400	210	6	-
Mine	"	-	-	-	-	-	-	-	-	-
Ebert, George	"	1,684	3,594	41	5,399 (j)	2,350	4,750	283	7	-
Mine	"	-	-	-	-	-	-	-	-	-



TWENTY-SEVENTH DISTRICT, CONTINUED

TWENTY-SEVENTH DISTRICT, CONTINUED													Non-fatal accidents dis- ability 60 days or more
		Production - net tons				Pounds black powder used	Pounds dynamite used	Pounds permiss- ible ex- ploives used	Days worked	Fatal accidents			
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TWENTY-SEVENTH DISTRICT, CONTINUED

TWENTY-SEVENTH DISTRICT, CONTINUED													
Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permis- sible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non-fatal accidents dis- ability 60 days or more
		Shipped to market :		Used at :									
		By railroad	By truck	to local	to colliery	Total							
				trade	and heat	production :							
Orchard Coal Co.	Schuyler	3,740	2,091	-	19	5,850 (l)	-	-	3,000	275	12	-	-
Mine													
Otto, C. M., & Son	"	-	21,045	2,163	765	23,973 (u)	-	3,400	19,000	186	54	-	-
Kemble (B)													
Pennag Coal Co.	"	5,013	17,711	185	-	22,909 (u)	-	490	4,575	223	34	-	-
Pennag (B)													
Pernick, Frank, Jr.	"	298	376	34	-	708 (q)	-	-	500	51	7	-	-
Mine													
Rizzardi Coal Co., Inc.	"	7,652	7,530	-	18	15,200 (m)f	-	-	10,400	235	23	-	1
Mine													
S. A. & J. Coal Co.	"	1,385	162	43	10	1,600 (r)	-	-	2,425	112	6	-	-
Mine (#9)													
Sabadish & Cherrybon	"	344	84	-	2	430 (m)	-	-	400	38	5	-	-
Mine (#10)													
Saunders Coal Mng. Co.	"	1,196	1,789	-	5	2,990 (l)	-	-	3,000	151	9	-	-
Mine													
Scheib & Leitzel	"	4,660	652	70	48	5,430 (n)	-	-	1,200	74	9	-	-
Stripping													
Schneck Coal Co.	"	-	-	19,378	20	19,398 (s)	-	2,500	8,775	185	37	-	-
Mine													
Shade, John	"	294	41	4	3	342 (n)	-	400	-	29	6	-	-
Stripping													
Stiely, Wellington	"	5,460	763	82	45	6,350 (n)	-	525	-	207	4	-	-
Stripping													
Stutzman, Chas. & Co.	"	604	118	-	5	757 (m)	-	-	2,600	56	5	-	-
Mine													
Troup, Warren	"	-	2,350	-	-	2,350 (t)	-	-	-	49	7	-	-
Bank													
Valent, Anthony	"	1,550	216	23	11	1,800 (v)	-	-	-	51	5	-	-
Stripping													
Valley Construc. Co.	"	-	540	-	-	540 (k)	-	-	-	14	4	-	-
Stripping													
Walaitis Coal Co.	"	-	3,660	-	-	3,660 (f)	-	1,350	2,450	287	5	-	-
Mine													
Wents Partnership	"	1,442	168	45	12	1,667 (r)	-	-	750	110	5	-	-
Mine													
Whiteash & Daleas	"	3,008	352	94	31	3,485 (c)r	-	-	6,250	197	7	-	-
Mine													

THIRTY-SEVENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds dynamite used		Pounds permissible explosives used		Days worked	Enpl-accidents	Fatal ability 60 days or more
		Shipped to market	By railroad	Sold to colliery	Used at local for steam and heat		black powder	used	black powder	used			
Woznicki & Berger Mine	Schuyl.	525,719	173,462	800	-	800 (k)	-	-	400	35	9	-	-
Grand total		525,719	173,462	50,976	11,362	761,519	-	233,880	288,925	1404	2	10	
(b) Breaker													
(a) Coal prepared at Indian Head breaker (21st) and Lamar breaker (27th)													
(b) " " " (19th)	Penna												
(c) " " " (19th)	Indian Run												
(d) " " " (20th)	Dancott												
(e) " " " (20th)	Indian Run & Pine Ridge (19th), Live Oak & Phoenix (21st), and Branchdale (Otto, 27th)												
(f) " " " (20th)	Various breakers												
(g) " " " (20th)	Buck Run breaker												
(h) " " " (20th)	Leon Kocher (25th) and Lamar (27th)												
(i) " " " (20th)	Kemble breaker of C. W. Otto & Sons, and included in their production												
(j) " " " (20th)	Indian Run (19th), Phoenix (21st), and Lamar (27th)												
(k) " " " (20th)	Pine Creek breaker (25th)												
(l) " " " (20th)	Leon Kocher, Pine Creek (25th) and Lamar												
(m) " " " (20th)	Lamar breaker												
(n) " " " (20th)	Westwood breaker, of Stevens Coal Co. (25th)												
(o) " " " (20th)	Legal " (25th) and Lamar												
(p) " " " (20th)	" " " (25th) and Lamar												
(q) " " " (20th)	Live Oak " (21st)												
(r) " " " (20th)	Phoenix " (21st)												
50 Operators in district													
58 Operations " "													
43 Mines " "													

50 Operators in district  
58 Operations " "  
43 Mines " "

Deep mined coal  
Stripping " -  
Bank " -

477,433 tons  
190,712 "  
93,374 "

# REGION TOTAL

Production - net tons				Pounds permis- sible ex- plosives used	Pounds dynamite used	Days Empl- oyes worked	Fatal acci- dents	Non-fatal accidents dis- ability 60 days or more
Shipped to market :	Sold :	Used at :	Total :					
By : truck :	to local :	colliery :	production :	black :				
railroad :	trade :	for steam :		powder :				
		and heat :		used :				

35,301,181 3,588,548 44,710,118 1,386,298 30,575,121 16,804,825 207 79,209 92 890

Man-days for region 16,362,473  
 Production per fatal for region 485,980  
 Fatalities per million man-hours for region .80 (Irreducible minimum .16)  
 Non-fatal accidents for region 6,997

Deep mined coal - 28,805,887 tons  
 Stripping " 11,081,087 "  
 Bank " 4,823,144 "

Compiled, typed: Ber

Operators Producing 10,000 or More Tons,  
In Order of Their Production  
1949

Operator	Production	Operator	Production
Glen Alden Coal Co.	5,870,609	Beadle & Rick	100,116
Philadelphia & Reading		Pine Ridge Mining Co.	93,118
Coal & Iron Co.	5,292,808	Adelphi Coal Mining Co.	91,963
Lehigh Navigation Coal Co.	3,424,382	Duryea Anthracite Co.	89,534
Hudson Coal Co.	3,366,391	Lackawanna Mining & Construction Co.	86,298
Lehigh Valley Coal Co.	2,296,908	Morea Mining Co.	83,310
Susquehanna Collieries Div.		Branchdale Coal Co.	83,305
M. A. Hanna Co.	1,984,552	Peca Coal Co.	83,053
Stevens Coal Co.	*1,779,900	T. & T. Construction Co.	81,635
Moffat Coal Co.	1,503,859	Pioneer Construction Co.	80,084
Jeddo-Highland Coal Co.	798,371	Capone Coal Co.	79,957
Locust Coal Co.	605,894	Jos. Banks Construc. Co.	79,819
Pennsylvania Coal Co.	595,085	Gasparini Stripping Co.	79,558
Kehoe-Berge Coal Co.	571,597	Live Oak Coal Co.	79,548
St. Clair Coal Co.	546,963	Sussex Coal Co.	77,637
Number Nine Coal Co.	474,684	Timothy Burke, Inc.	76,407
Raven Run Coal Co.	460,675	J. E. Schumacher & Son	75,817
Hammond Coal Co.	375,497	Eagle Hill Coal Co.	75,816
Knox Coal Co.	355,303	Luzerne County Gas & Elec.	74,012
Jermyn-Green Coal Co.	338,891	Greenwood Mining Co.	73,601
Repplier Coal Co.	308,489	Cranberry Mining Co.	70,908
Haddock Mining Co.	297,066	Village Slope Coal Co.	68,600
Huss Contracting Co.	291,530	Rhoads Contracting Co.	68,058
Hazle Brook Coal Co.	287,978	Valley View Coal Co.	67,708
Phoenix Contracting Co.	273,224	Atkins Coal Co.	67,457
Mountain Top Coal Co.	270,936	Russell Coal Co.	67,019
Northwest Coal Co.	263,608	Hoover Coal Mining Co.	65,152
Buck Run Colliery Co.	255,476	Maltby Coal Co.	65,077
Payne Coal Co.	242,990	Trader Horn Coal Co.	63,897
Phoenix Coal Co.	238,562	Conlon Coal Co.	63,421
Harry E. Coal Co.	235,236	Sandy Run Miners & Prod's.	62,840
Indian Head Coal Co.	234,882	Perry Construction Co.	60,787
Natalie Coal Corp.	205,241	Alden Coal Co.	58,709
DeAngelis Coal Co.	191,319	Fisher Coal Co.	58,266
Centralia Mining Co.	190,606	Joliett Coal Co.	58,245
Lattimer Coal Corp.	186,633	Kingston Mining Corp.	57,936
Jonathan Coal Mining Co.	180,830	Turnpike Coal Co.	55,272
Anthracite Enterprises, Inc.	175,758	J. B. Keiser & Son	54,818
Steam Coals, Inc.	170,544	Gillizzi Coal Co.	53,993
John Booth, Inc.	168,586	Rosini Bros.	52,942
Locust Valley Coal Co.	167,805	D. & Z. Coal Co.	52,835
Gateway Coal Co.	167,457	Courtdale Coal Co.	52,470
Alpec Coal Co.	166,422	Nanticoke Excavating Co.	51,246
Mammoth Coal Co.	155,138	Broad Mountain Fuel Corp.	50,150
Hydrotated Anth. Fuel Co.	154,021	Chas. L. Reilly	49,669
Markson Coal Co.	152,908	Williams Stripping Co.	47,267
T. F. Steele Coal Co.	151,430	Coal Rain Coal Co.	46,597
Reading Briquet Co.	150,788	Seltzer Coal Co.	45,200
Colitz Coal Co.	149,458	Tolerico Stripping Co.	44,142
Bellevue Coal Co.	146,709	Diminick Coal Sales Co.	42,439
M. & S. Coal Co.	142,255	Franklin Coal Mining Co.	41,753
Maksymik & Co.	139,433	Sarf Coal Co.	41,447
Cullen Coal Co.	136,839	Gowen Coal Co.	40,922
Carbonizing Coal Co.	135,223	Penna Coal Co.	40,170
Morris Ridge Coal Co.	131,489	Motley Coal Co.	39,786
Gilberton Coal Co.	118,615	Harris & Walsh	39,168
Heidelberg Coal Co.	116,424	West Exeter Coal Co.	38,671
Plains-Hilldale Coal Co.	115,973	Pringle Coal Co.	38,034
Pompey Coal Co.	115,660	Dial Rock Coal Co.	37,362
Swatara Coal Co.	111,704	Exchange Coal Co.	37,000
Rhonda Coal Co.	110,185	Lower Region Coal Co.	36,700
Nay Aug Coal Co.	107,462	Hinchey & McKinley	36,638
Kohinoor Coal Co.	102,008	Waddell Coal Co.	36,096
Capparell Contracting Co.	100,861		

Operators Producing 10,000 or More Tons,  
In Order of Their Production  
1949

Operator	Production	Operator	Production
Salem Hill Coal Co.	35,282	Gravine Coal Co.	14,662
West Slope Coal Corp.	34,694	Meadowside Coal Co.	14,575
Jonathan Coal Co.	33,662	Butter Tub Coal Co.	14,320
McCarrick Bros.	33,624	Sanchez Construction Co.	14,232
Gillen Coal Co.	33,255	Genelow Coal Co.	14,022
Foieri & Louis	32,820	Silverton Coal Co.	13,854
Swift Coal Co.	31,937	Altamont Coal Co.	13,744
P. & J. Coal Co.	31,887	Stauffer Coal Co.	13,700
Pioneer City Coal Co.	30,731	Dweczyk Coal Co.	13,675
Simpson Coal Co.	30,085	A. & F. Coal Co.	13,544
Logan Creek Construc'n.Co.	29,848	Hamilton Construction Co.	13,505
Haven Coal & Supply Co.	29,760	Larksville Coal Co.	13,421
Monitor Co., Inc.	29,524	Zimmerman Coal Co.	13,301
Dancott Coal Co.	28,764	High Test Coal Co.	13,124
Bird Mining Co.	28,482	M. & M. Coal Co.	13,049
Farley & Laychack	27,940	Reuben Hentz	12,954
L. K. Coal Co.	27,757	C. Q. & W. Coal Co.	12,841
Winton Coal Co.	27,600	Vispi Coal Co.	12,644
Panzitta Coal Co.	27,152	Herb & Reed	12,639
Stanley Coal Co., Inc.	26,895	B. & W. Coal Co.	12,581
Floskonka Coal Co.	26,054	Renninger Coal Co.	12,117
Norvidas & Palko	25,731	Darkwater Coal Co.	12,000
Tamaqua Coal Pockets	25,546	Goodspring Contracting Co.	11,664
Florine Coal Co.	25,302	Mascelli Coal Co.	11,655
Oak Coal Yard	25,250	Keyser Valley Coal Co.	11,619
Beaver Brook Coal Co.	24,645	Ace Coal Co.	11,170
West Side Coal Co.	24,639	Guiducci Coal Co.	11,049
Beckville Coal Co.	24,000	Harbon Coal & Contracting Co.	11,029
C. M. Otto & Son	23,973	Marlin Lehman	10,885
Jos. P. Dando, Sr.	23,914	Lawrence Shade	10,876
Little & Shecora	23,727	Klimas Bros.	10,583
Deweese Bros.	23,695	Dantas, Alfred	10,482
Bernice White Ash C.Co.	23,585	Throop Mining Co.	10,456
Columbia Coal Co.	23,387	Schuster Coal Co.	10,261
K. & D. Coal Co.	23,241	Hepler & Otto	10,209
Penag Coal Co.	22,909	Sproul Construction Co.	10,137
Reidinger Coal Service	22,861		
McHale & Santor	22,750		
Indian Run Coal Co.	22,000		
Snyder Coal Co.	21,780		
Jonathan Coal Co.	21,763		
Francis Deaven	21,459		
Caylord Coal Co.	21,212		
Bridy, Inc.	20,000		
Eddie & Joe Coal Co.	19,726		
Skytop Coal Co.	19,719		
Sunshine Coal Co.	19,557		
Schneck Coal Co.	19,398		
Jones Coal Corp.	19,205		
Tarrone Coal Co.	19,134		
Sobleskie Coal Co.	18,608		
Gravity Coal Co.	18,430		
Boslego Coal Co.	18,028		
Hillside Coal Co.	18,000		
Lohb Coal Co.	17,819		
Masters Coal Co.	17,802		
Jenkins Coal Co.	17,659		
Gianforcoro Coal Co.	17,610		
Mazzoni Coal Co.	16,209		
Elmer Wertz	15,666		
Sweeney Bros.	15,454		
Gildea Coal Co.	15,229		
Rizzardi Coal Co., Inc.	15,200		
Level Coal Co.	15,057		
Mine Hill Coal Co.	15,010		

\*Preparation only

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INSIDE EMPLOYEES - BY CLASSIFICATION

Dist- rict	Mine foremen	Asst. foremen & fire bosses	Miners	Miners' laborers	Machine runners	Motor runners	Motor runners'	runners' assistants	Drivers & runners	Trackmen	Bratticemen	Timbermen	Pumpmen	Electricians	Door attendants	All others	Total
1	32	94	591	1101	21	96	80	11	39	8	8	11	9	8	1	192	2256
2	35	73	506	830	8	94	59	29	33	11	11	126	16	15	5	191	1929
3	27	63	608	1041	37	118	106	4	65	20	21	92	18	49	5	247	2504
5	26	55	577	1181	5	118	901	8	109	21	21	74	17	35	35	129	2051
6	19	49	644	644	1	49	63	6	27	14	14	70	19	24	1	77	1520
7	12	57	406	627	3	91	82	1	37	29	29	109	11	19	2	329	1814
8	21	101	794	1358	8	153	112	1	53	41	41	121	43	69	30	272	3213
9	16	82	700	1126	12	137	114	2	49	32	32	86	25	41	43	256	2718
10	13	53	480	730	1	83	71	40	38	22	22	15	20	16	29	198	1839
11	11	77	573	1145	2	114	122	22	53	36	36	31	11	16	22	471	2709
12	13	79	804	1128	18	153	131	51	71	51	51	95	8	27	21	681	3334
13	13	90	783	1174	22	158	153	2	58	47	47	108	14	22	22	583	3227
14	16	85	823	1202	1	129	97	1	38	26	26	32	11	9	1	388	2857
15	19	36	592	1148	1	49	99	1	16	8	8	75	6	10	1	47	1046
16	12	27	523	198	1	35	35	10	21	1	1	63	7	16	1	130	1086
17	9	62	1158	11	1	92	72	15	36	37	37	682	3	28	16	199	2450
18	16	91	1652	117	1	116	96	13	82	34	34	82	9	13	10	672	3255
19	17	30	754	123	2	56	40	28	15	13	13	57	11	6	4	177	1336
20	18	55	865	11	2	65	56	19	38	14	14	194	7	1	19	326	1720
21	38	23	616	55	2	27	15	25	4	16	16	30	7	8	8	106	970
22	16	77	1068	54	22	77	74	23	31	11	11	318	22	13	23	461	2320
23	29	72	1125	1144	5	71	65	37	46	11	11	213	19	1	6	363	2263
24	23	29	585	1149	5	17	12	76	9	17	17	61	7	9	2	84	1085
25	22	11	245	55	5	13	13	19	3	5	5	22	1	1	1	52	1461
26	25	50	788	136	2	53	51	11	25	17	17	181	4	12	11	171	1537
27	42	26	376	1149	6	32	22	12	10	15	15	48	4	3	4	33	782
	540	1485	18406	14330	184	2188	1906	529	928	625	625	3216	328	498	290	6835	52318

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OUTSIDE EMPLOYEES - BY CLASSIFICATION

District	SuperIntendents	Foremen	Blacksmiths & carpenters	Engineers & firemen	Trackmen	Statepickers	Office employees	All others	Total outside	Grand total inside & outside
1	23	31	109	110	7	9	40	858	1187	3443
2	12	20	59	112	1	8	46	304	562	2491
3	14	27	57	78	3	3	35	579	796	3336
5	19	25	42	63	3	10	47	676	885	2936
6	5	15	26	53	3	-	27	328	457	1977
7	8	13	47	73	4	5	18	557	725	2539
8	9	16	72	93	8	12	54	446	710	3923
9	17	14	84	87	10	5	26	363	606	3324
10	9	9	38	48	8	6	32	372	522	2361
11	7	10	30	53	2	36	21	507	666	3375
12	9	13	98	87	2	16	32	700	957	4291
13	7	22	78	74	8	21	15	852	1077	4304
14	7	10	58	125	9	29	29	896	1163	4020
15	8	46	67	129	12	2	32	623	919	1965
16	14	44	64	144	8	12	48	703	1037	2123
17	5	33	86	171	11	12	21	1138	1477	3927
18	11	45	88	217	28	2	40	940	1371	4626
19	29	69	94	206	10	27	80	1865	2380	3716
20	9	36	72	76	4	56	86	1372	1711	3431
21	15	25	24	84	7	36	37	413	641	1611
22	14	61	101	94	5	32	87	1501	1895	4215
23	12	39	58	107	13	36	48	1054	1367	3630
24	11	51	52	72	13	29	73	1011	1342	2427
25	25	15	39	42	-	19	28	612	780	1241
26	19	28	44	71	6	25	26	817	1036	2573
27	12	20	14	184	3	11	27	351	622	1404
	360	737	1601	2653	188	459	1055	19838	26891	79209

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# Fatal Accidents - 1949

Name of victim	Address	Company	Colliery, mine, etc.	Date	Cause of injury
Adams, Guy L.	R. D. Herndon, Pa.	Wm. Schwalb & Co.	Mine	Apr. 18	Fall of coal from rib
Allford, William	1399 Murray St., Forty-Fort	Lehigh Valley Coal Co.	Dorrance	Oct. 17	Fall of roof
Anderson, Benjamin W.	701 W. Grove St., Taylor	Moffat Coal Co. Interests	Pyne	June 3	Mine cars, struck, run over
Argona, Frank	202 S. Main St., Pittston	Kehoe-Berger Coal Co.	Red Ash	Apr. 19	Fall of roof
Bartoszek, Walter	Kingslon, Pa.	Glen Alden Coal Co.	Woodward	June 11	Cars, caught between car & face
Batcha, Joseph	109 Church St., Taylor	Heidelberg Coal Co.	Heidelberg	Apr. 29	Fall of roof
Bell, Peter	Nuremberg, Pa.	Cowen Coal Co.	Cowen	Feb. 14	Fall of top coal
Bedzecki, Wadic S.	30 Church St., Nanticoke	Glen Alden Coal Co.	Wanamie	Feb. 10	Cars, struck by runaway trip, when coupling link broke
Blaine, James G.	52 Waller St., Wilkes-Barre	Glen Alden Coal Co.	S. Wilkes-Barre	Mar. 31	Cars, thrown off, when rope clevice became disengaged & trip ran down plane
Boheneck, George	610 Oak St., Old Forge	Knox Coal Co.	Schoolley	Aug. 16	Fall of roof
Bosack, John	Marlin, Pa.	Markson Coal Co.	Markson	Oct. 7	Fell into header between coal pockets, outside
Busocker, John C.	160 W. Broadway, Mauch Chunk	Lehigh Navigation Coal Co.	Lansford	Nov. 21	Explosion of gas
Butler, Michael P.	640 Main St., Sugar Notch	Glen Alden Coal Co.	S. Wilkes-Barre	Dec. 19	Cars, fell, run over, attempting to board moving trip
Cavanaugh, Hugh	79 Regent St., Wilkes-Barre	Glen Alden Coal Co.	S. Wilkes-Barre	Jan. 5	Explosion of gas
Chickalochick, Michael	1412 St. Ann St., Scranton	Moffat Coal Co. Interests	Taylor	Feb. 10	Fall of roof
Closser, Arthur B.	3 S. 4th St., Frackville	Phila. & Reading C. & I. Co.	St. Nicholas Breaker	Apr. 1	Crushed between elevator and shaft structure
Comer, Luke	Plymouth, Pa.	Glen Alden Coal Co.	Lance	Apr. 5	Fall of roof
Condo, Thomas	82 Walnut St., Wilkes-Barre	Lehigh Valley Coal Co.	Franklin	Oct. 13	Fall of roof
Curley, Frank	Locust Dale, Pa.	Phila. & Reading C. & I. Co.	Potts	Nov. 21	Cars, caught between, when moving trip struck a standing trip
Daubenspeck, William	131 E. Lehigh St., Coaldale	Lehigh Navigation Coal Co.	Tamaqua	Apr. 13	Premature blast
Delaney, William	1223 W. Coal St., Shenandoah	Kohlnoor Coal Co.	Kohlnoor	Mar. 11	Burned, clothing caught fire from fire he built outdoors
Diazbarzdis, John	59 Pulaski St., Buttonwood	Glen Alden Coal Co.	Buttonwood	Oct. 14	Fall of roof
Doner, Julius	52 Sharp St., Edwardsville	* Pagnotti Coal Co. Interests	Harry E.	Nov. 14	Fall of roof
Ellard, Rudolph	221 W. Taylor St., Taylor	Knox Coal Co.	Schoolley	Oct. 25	Fall of roof dislodged timber, which struck him
Ey, Raymond	416 W. Main St., Girardville	Gilberton Coal Co.	Packer #5	May 4	Mine fire
Fertig, Newton	Lavelle, Pa.	Hammond Coal Co.	Hammond	June 21	Fall of roof

Fatal Accidents - 1949

Name of victim	Address	Company	Colliery, mine, etc.	Date	Cause of injury
Flynn, John J.	230 Inman Park, Hanover Twp.	Glen Alden Coal Co.	Buttonwood	Dec. 22	Struck, knocked down shaft by chain used in hoisting, which broke and flew
Galinsky, Edward	Shenandoah, Pa.	Salem Hill Coal Co.	Salem Hill	Dec. 2	Run over by bulldozer, which got out of control while he was operating it
Gallagher, Edward	Larksville, Pa.	Glen Alden Coal Co.	Woodward	July 14	Blast, struck by piece of rail he fired on to break it
Gasperini, Olimpio	5 Washington St., W. Wyoming	Maltby Coal Co.	Maltby	Nov. 10	Fall of middle rock
Hannon, Patrick	107 George Ave., Parsons	Hudson Coal Co.	Baltimore #5	Feb. 16	Fall of coal from rib
Hassick, George	77 Anthracite St., Wilkes-Barre	Glen Alden Coal Co.	S. Wilkes-Barre	Jan. 5	Explosion of gas
Hudak, John	740 Mills St., Plymouth	(Susquehanna Collieries Div. W. A. Hanna Co.)	Glen Lyon	Sept. 1	Fall of roof
Hughes, John W.	102 Newport St., Glen Lyon	(Susquehanna Collieries Div. W. A. Hanna Co.)	Glen Lyon	Aug. 17	Fall of coal from rib
Kelly, William	1193 W. Centre St., Shenandoah	Gilberton Coal Co.	Packer #5	May 4	Mine fire
Kopiak, Harry	1215 New Grant St., Nanticoke	Glen Alden Coal Co.	Bliss	Dec. 19	Fall of roof
Kopko, Louis	351 E. Grove St., Nanticoke	Glen Alden Coal Co.	Truesdale	Oct. 13	Fall of roof
Koslowski, Charles S.	172 Orchard St., Plymouth	Glen Alden Coal Co.	Avondale	Mar. 11	Mine cars, apparently jumped off motor, thought trip was out of control
Kurowicki, Joseph S.	118 W. Washington St., Nanticoke	Glen Alden Coal Co.	Loomis	Feb. 4	Fall of fire clay
Kurtinitis, William	27 Morgan St., Pittston	Keheo-Berge Coal Co.	Red Ash	Apr. 19	Fall of roof
Lisowski, William	324 East Ave., Mt. Carmel	Phila. & Reading C. & I. Co.	Reliance	Apr. 11	Cars, empty trip derailed, pinned him against trip on another track
Loney, Mordecai A.	Larksville, Pa.	Hudson Coal Co.	Loree	Dec. 19	Fall of roof
Loret, Vincent	502 E. Scott St., Olyphant	Hudson Coal Co.	Olyphant	Jan. 17	Fall of roof and rib
Lukashefski, William	31 E. Union St., Nanticoke	(Susquehanna Collieries Div. W. A. Hanna Co.)	No. 7	May 14	Railroad cars, fell, run over
Maas, Walter	R. D. #1, Jermynt, Pa.	Glen Alden Coal Co.	Baker	Aug. 29	Mine cars, caught by low timber, knocked off car
Martin, William	Edwardsville, Pa.	Glen Alden Coal Co.	Woodward	Nov. 12	Blast
McKay, Robert	207 Green St., Edwardsville	Glen Alden Coal Co.	Woodward	Nov. 9	Mine cars, caught against rib by derailed car
Myers, Robert	88 Main St., Inkerman	Keheo-Berge Coal Co.	Mosca	Nov. 5	Fall of coal
Newton, William H.	102 E. Hazard St., Summit Hill	Lehigh Navigation Coal Co.	Lansford	Aug. 5	Mine cars, caught between car he was running and empty car left standing on crossing
Nitkowski, Kasmer	18 E. Grand St., Nanticoke	Glen Alden Coal Co.	Loomis	Feb. 4	Fall of fire clay

Fatal Accidents - 1949

Name of victim	Address	Company	Colliery, mine, etc.	Date	Cause of injury
O'Brien, William Ogdn, Ernest, Jr.	16 East A. St., Girardville 290 Andover St., Wilkes-Barre	Gilberton Coal Co. Jermyn-Green Coal Co.	Packer #5 No. 14	May 4 Mar. 5	Mine fire Mine cars, fell off motor, coupling pulled apart, causing trip to jerk
Oravic, Andrew	5 Spencer St., Wilkes-Barre	Lehigh Valley Coal Co. (Susquehanna Collieries Div. M. A. Hanna Co.)	Prospect	June 10	Mine cars, not properly blocked, ran away
Patterson, John	132 Park Ave., Nanticoke		No. 7	Dec. 21	Hook on drawhead broke, rope & clevis chain flew, struck him
Pisarz, Walter Pollini, Albert	718 Chestnut St., Kulpmont 438 Holden St., W. Wyoming	Phila. & Reading C. & I. Co. Lehigh Valley Coal Co.	Alaska Westmoreland	Dec. 13 May 27	Fall of roof Fell & struck head, trying to escape dislodged prop & fall of roof
Popalis, John	128 N. Union St., Shenandoah	Phila. & Reading C. & I. Co.	Kickerbocker	Oct. 3	Rush of material in pitching chamber
Preat, Joseph Pringle, John	408 Adams St., Freeland 1742 Nay Aug. Ave., Scranton	Greenwood Mining Co. Moffat Coal Co. Interests	Drifton #9 Storrs	Oct. 12 Apr. 21	Fall of roof Fall of roof
Richards, Thomas Roache, Thomas	532 Main St., Sugar Notch 89 Spring Court, Pittston	Glen Alden Coal Co. Pagnotti Coal Co. Interests	Woodward Huber	Aug. 24 May 2	Material fell down shaft Explosion of gas
Romanini, Anthony Romanowski, John	401 Rear Main St., Dupont	Barney Guzier Coal Co.	No. 9 Mine	Sept. 1 May 6	Fall of roof coal Fall of roof
Russell, Thomas Sadusky, Albert G.	932 Mt. Vernon St., Scranton Kaska St., Middleport	Keyser Valley Coal Co. Lehigh Navigation Coal Co.	Mine Coaldale	Oct. 22 Nov. 23	Fall of roof Suffocated by rush of material in chute
Sagan, Andrew Shavrowskas, John	230 Phillip St., Nanticoke 11 W. First St., Wyoming	Glen Alden Coal Co. Pagnotti Coal Co. Interests	Truesdale No. 6	Jan. 20 Dec. 20	Fall of roof coal Fall of roof
Shell, Thomas	Wiconisco Ave., Tower City	Pagnotti Coal Co. Interests	Jollett	Nov. 18	Rush of loose coal through breast battery drawhole
Shigo, Wassil	Harleigh Terrace, Harleigh	Jeddo-Highland Coal Co.	Jeddo #7	Oct. 15	Electrocuted, grasped chain which was charged, on account of a leak in pump switch
Sims, Stanley G. Skrabak, Joseph	Larksville, Pa. 527 E. Ridge St., Lansford	Hudson Coal Co. Lehigh Navigation Coal Co.	Loree Coaldale	Mar. 3 Nov. 1	Fall of buckstone Fall of roof
Spersad, Benjamin Stashick, Joseph G.	411 S. Washington Ave., Scranton 22 Arch St., Glen Lyon	Moffat Coal Co. Interests (Susquehanna Collieries Div. M. A. Hanna Co.)	Continental Glen Lyon	Aug. 10 Aug. 17	Fall of roof coal Fall of coal from rib
Szewczuk, Michael Tretter, Joseph	805 W. Grove St., Taylor 211 South St., Minersville	Moffat Coal Co. Interests Fegley & Tretter	Archbald Mine	Jan. 25 Dec. 12	Fall of roof Fall of roof
Verbitski, Alexander Vitz, Joseph, J.	282 Mayock St., Wilkes-Barre 130 E. Union St., Nanticoke	Hudson Coal Co. Glen Alden Coal Co.	Delaware Loomis	Jan. 10 Oct. 8	Fall of roof Fall of roof

Fatal Accidents - 1949

Name of victim	Address	Company	Colliery, mine, etc.	Date	Cause of injury
Volowich, Edward	Box 42, R.D. 1, Hunlock Creek	(Susquehanna Collieries Div. (M. A. Hanna Co.	No. 7	July 29	Fall of roof
Walters, Melvin C.	Donaldson, Pa.	Pagnotti Coal Co. Interests	Indian Head	Jan. 31	Fall of soggy clay, coal, top rock and surface rock
Warenko, Stanley J.	4 Enterprise St., Glen Lyon	(Susquehanna Collieries Div. (M. A. Hanna Co.	Glen Lyon	Sept. 16	Asphyxiated by methane gas
Wargo, Joseph A.	Larksville, Pa.	Hudson Coal Co.	Loree	Nov. 15	Cars, struck, run over
Washinsky, Stanley	88 Nones Ave., Swoyerville	Maltby Coal Co.	Maltby	Feb. 22	Fall of roof
Watto, John, Jr.	326 Catawissa St., Nesquehoning	Lehigh Navigation Coal Co.	Lansford	Nov. 21	Explosion of gas
Weaver, James	Larksville, Pa.	Hudson Coal Co.	Loree	Feb. 3	Falling material from spoil bank, at stripping
Nowak, Joseph	126 E. Coal St., Shenandoah	Gilberton Coal Co.	Packer #5	May 4	Mine fire
Woyunik, George	295 New Grant St., Wilkes-Barre	Hudson Coal Co.	Baltimore #5	Feb. 25	Fall of roof
Yastrumski, Thomas	103 Hudson Road, Hudson	Conlon Coal Co.	Madeira	May 24	Fall of roof
Yenchu, Michael	119 E. Carey St., Plains	Lehigh Valley Coal Co.	Henry	Apr. 4	Fall of roof
Yniguaz, Peter	218 W. Atlantic St., Shenandoah	Phila. & Reading C. & I. Co.	Maple Hill	Jan. 19	Fall of roof
Yurchak, George	873 Miller St., Luzerne	Pagnotti Coal Co. Interests	Harry E.	Feb. 7	Fall of roof
Zatorski, John	254 River St., Nanticoke	(Susquehanna Collieries Div. (M. A. Hanna Co.	No. 7	May 23	Fall of top coal
Ziminski, George	521 W. Green St., W. Hazleton	Cranberry Mining Co.	Cranberry	May 5	Fall of roof

Total: 92 fatalities

\* Pagnotti Coal Co. Interests include: Harry E. Coal Co., Number Nine Coal Co., Joliett Coal Co., Indian Head Coal Co. and Sullivan Trail Co.

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Causes of Fatal Accidents, By Counties, 1949

	Inside												Outside											
	Carbon	Columbia	Dauphin	Lackawanna	Luzerne	Northumb'd.	Schuylkill	Sullivan	Susquehanna	Wayne	Total	Carbon	Columbia	Dauphin	Lackawanna	Luzerne	Northumb'd.	Schuylkill	Sullivan	Susquehanna	Wayne	Total		
Direct falls . . . . .	-	-	-	4	25	1	4	-	-	-	34	-	-	-	-	-	-	-	-	-	-	-	34	
Indirect falls . . . . .	-	-	-	2	13	-	2	-	-	-	17	-	-	-	-	-	-	-	-	-	-	-	17	
Cars, transportation . . . . .	-	1	-	2	9	1	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	13	
Falling material . . . . .	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
Fall of person . . . . .	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
Explosions of gas . . . . .	-	-	-	-	3	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	3	
Blasts . . . . .	2	-	-	-	2	-	1	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	5	
Asphyxiation by methane gas . . . . .	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
Hook on drawhead broke, rope & clevice chain flew, struck him . . . . .	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
Suffocated by rush of material in chute . . . . .	-	-	-	-	-	-	4	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	4	
Mine fire . . . . .	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
Rush of material in pitching chamber . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rush of loose coal through breast battery drawhole . . . . .	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
Total inside . . . . .	2	1	-	8	56	2	14	-	-	-	83	2	1	-	8	56	2	14	-	-	-	-	83	
Mine cars . . . . .	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Railroad cars . . . . .	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	
Electricity . . . . .	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Fall of person . . . . .	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
Fall of material from spoil bank . . . . .	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Struck, knocked down shaft by chain used in hoisting, which broke and flew . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	
Run over by bulldozer . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Burned, clothing ignited from open fire he built . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
Caught between elevator and shaft structure while installing pipe in breaker . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
Total outside . . . . .	1	-	-	-	4	-	4	-	-	-	9	1	-	-	-	4	-	4	-	-	-	-	9	
Grand total . . . . .	3	1	-	8	60	2	18	-	-	-	92	3	1	-	8	60	2	18	-	-	-	-	92	

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Production Per Fatal Inside, and Production Per Fatal Inside and Outside, By District  
1949

Dist- rict	Inspector	Deep mined production	Stripping production	Bank production	Total production	Fatal- ities inside	Fatal- ities outside	Fatal- ities total	Production per fatal deep mined	Production per fatal inside & outside
1	J. F. Munley	1,427,463	606,615	83,265	2,117,343	1	-	1	1,427,463	2,117,343
2	T. L. Wackley	1,204,311	120,633	135,751	1,460,695	-	-	-	-	-
3	W. O. Ward	1,311,742	136,663	167,277	1,617,682	3	-	3	437,247	539,227
5	T. D. Rees	1,146,194	198,986	114,424	1,459,604	5	-	5	229,239	291,921
6	J. J. Bonner	825,563	205,166	51,172	1,081,921	3	-	3	275,188	360,640
7	A. Wilson	873,620	257,891	-	1,131,511	5	-	5	174,724	226,302
8	D. H. Connelly	1,038,783	37,262	109,873	1,185,918	4	-	4	259,696	296,480
9	D. W. Coslett	1,250,951	27,946	99,699	1,378,596	8	-	8	156,369	172,325
10	J. C. Hines	1,001,945	113,372	9,044	1,124,331	3	-	3	333,982	374,777
11	T. M. Heaney	1,354,613	77,445	-	1,432,058	8	-	8	169,327	179,007
12	E. C. Curtis	1,721,715	136,521	-	1,858,236	9	1	10	191,302	185,824
13	J. D. Edwards	1,573,838	211,445	-	1,785,283	4	1	5	393,460	223,859
14	K. C. Lee	1,593,925	419,268	-	2,014,735	8	1	9	199,241	223,859
15	R. Ditzler	526,013	566,529	1,542	1,256,845	2	1	3	263,007	418,948
16	Vacant	485,996	612,186	164,303	1,373,670	1	-	1	485,996	1,373,670
17	W. J. Clements	1,594,873	606,569	217,268	2,418,710	3	-	3	531,624	806,237
18	J. J. Shober	1,532,430	601,167	23,499	2,157,096	2	1	3	766,215	719,032
19	T. A. Ryan	744,441	2,005,033	339,389	3,088,863	-	1	1	-	3,088,863
20	J. H. Morgan	1,170,984	653,564	263,611	2,088,159	1	2	3	963,502	1,292,611
21	H. Hilbert	963,502	93,716	235,393	1,292,611	1	-	1	224,117	475,387
22	R. O. Schneider	1,344,699	1,206,424	301,199	2,852,322	6	-	6	606,312	1,087,259
23	J. P. Brophy	1,212,624	467,733	494,160	2,174,517	2	-	2	-	-
24	J. R. Ruane	1,421,089	734,958	797,097	2,953,144	-	1	1	286,533	441,772
25	G. E. Smith	286,533	342,200	254,811	883,544	1	1	2	720,607	1,761,205
26	J. E. Reinhoel	720,607	449,663	591,535	1,761,205	1	-	1	238,717	380,760
27	H. F. Shomper	477,433	190,712	93,374	761,519	2	-	2	-	-
		28,805,887	11,081,087	4,823,144	44,710,118	83	9	92	347,059	485,980

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Production Per Fatal Inside, and Production Per Fatal Inside and Outside, By Operator  
1949

Operator	Deep mined production	Stripping production	Bank production	Total production	Fatal- ities inside	Fatal- ities outside	Fatal- ities total	Production per fatal deep mined	Production per fatal inside and outside	Empl- oyes
Philadelphia & Reading Coal & Iron Co.	2,373,081	2,149,276	770,451	5,292,808	5	1	6	474,616	882,135	8720
Jeddo-Highland Coal Co.	405,146	393,225	-	798,371	-	1	1	-	798,371	1205
Lehigh Navigation Coal Co.	2,322,556	1,052,509	49,317	3,424,382	5	1	6	464,511	570,730	5972
Lehigh Valley Coal Co.	2,072,241	213,330	11,337	2,296,908	5	-	5	444,448	459,382	5194
Hudson Coal Co.	3,115,897	220,494	-	3,366,391	7	1	8	449,413	420,799	6542
Hammond Coal Co.	238,343	120,048	17,106	375,497	1	-	1	238,343	375,497	726
Jermyn-Green Coal Co.	335,685	3,206	-	338,891	1	-	1	335,685	338,891	1631
Moffat Coal Co.	1,386,247	117,612	-	1,503,859	5	-	5	277,249	300,772	2611
Glen Alden Coal Co.	5,065,588	805,021	-	5,870,609	21	1	22	241,218	266,846	14436
Susquehanna Collieries Div. M. A. Hanna Co.	1,586,859	397,692	-	1,984,552	7	1	8	226,694	248,069	3648
Number Nine Coal Co.	435,926	38,758	-	474,684	2	-	2	217,963	237,342	1487
Indian Head Coal Co.	216,243	18,639	-	234,882	1	-	1	216,243	234,882	434
Kehoe-Berge Coal Co.	465,561	44,986	61,050	571,597	3	-	3	155,187	190,532	1386
Knox Coal Co.	355,303	-	-	355,303	2	-	2	177,651	177,651	559
Markson Coal Co.	129,971	22,937	-	152,908	-	1	1	-	152,908	314
Harry E. Coal Co.	222,717	12,519	-	235,236	2	-	2	111,359	117,618	586
Heidelberg Coal Co.	94,098	22,326	-	116,424	1	-	1	94,098	116,424	339
Kohinoor Coal Co.	-	27,828	74,180	102,008	-	1	1	-	102,008	124
Greenwood Mining Co.	63,901	9,700	-	73,601	1	-	1	63,901	73,601	153
Granberry Mining Co.	70,908	-	-	70,908	1	-	1	70,908	70,908	145
Conlon Coal Co.	50,397	13,024	-	63,421	1	-	1	50,397	63,421	119
Jollett Coal Co.	58,245	-	-	58,245	1	-	1	58,245	58,245	110
Gowen Coal Co.	7,994	28,635	4,293	40,922	1	-	1	7,994	40,922	77
Salem Hill Coal Co.	32,404	-	2,878	35,282	-	1	1	-	35,282	127
Waltby Coal Co.	65,077	-	-	65,077	2	-	2	32,539	32,539	107
Gilberton Coal Co.	58,003	24,002	36,610	118,615	4	-	4	14,501	29,654	516
Keyser Valley Coal Co.	11,619	-	-	11,619	-	-	-	11,619	11,619	46
William Schwalb	8,361	-	-	8,361	1	-	1	8,361	8,361	10
Fegley & Fretter	5,885	-	-	5,885	1	-	1	5,885	5,885	8
Barney Guzier	2,610	-	-	2,610	1	-	1	2,610	2,610	11

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# FATALITIES BY MONTHS

YEAR	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1940	16	18	14	19	17	19	7	11	17	16	12	16	182
1941	22	13	15	11	14	18	15	27	19	13	11	11	189
1942	15	23	20	23	22	21	23	13	17	14	17	17	225
1943	8	14	26	16	20	13	17	22	37 <sup>‡</sup>	13	21	11	218
1944	14	21	16	11	14	11	12	14	15	13	16	14	171
1945	14	8	14	13	2*	17	12	16	8	14	9	10	137
1946	21	21	18	14	17	5	7	10	15	18	10	13	169
1947	34	12	11	16	12	5	12	10	13	14	10	16	165
1948	18	10	12	9	8	7	15	14	10	7	13	8	131
1949	8	10	5	10	11	4	2	7	3	11	12	9	92

‡ Explosion - 14  
 \* Idle 17 days - strike

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Accidents in Which Five or More Persons Were Killed, 1847-1949

Year	Date	Colliery	Location of colliery	Cause of accident	Number killed
1847	Feb.	Spencer	Pottsville	Explosion of gas	7
1869	Sept. 6	Avondale	Plymouth	Mine fire	110
1870	Mar. 22	Potts	Locust Dale	Boiler explosion	5
	Aug. 10	Heins & Glassmire	Middleport	Cage fell down shaft	9
	Aug. 29	Preston #3	Girardville	Car fell down slope	7
1871	May 27	West Pittston	West Pittston	Suffocated by smoke from burning breaker	20
	Oct. 2	Otto Red Ash	Branch Dale	Explosion of gas	5
1873	June 10	Henry Clay	Shamokin	" " "	10
1877	May 9	Wadesville	Wadesville	" " "	7
1878	Jan. 15	Potts	Locust Dale	" " "	5
1879	May 6	Audenried	Audenried	" " "	6
	Nov. 2	Mill Creek	Mill Creek	" " "	5
1880	May 3	Lykens Valley	Shamokin	" " "	5
1882	May 24	Kohinoor	Shenandoah	" " "	5
1884	Aug. 21	Buck Ridge	Shamokin	Mine fire	7
1885	Apr. 6	Cuyler	Raven Run	Fall of roof	10
	Aug. 11	West End	Mocanaqua	Suffocated by gas from boiler fire	10
	Oct. 21	Plymouth #2	Plymouth	Explosion of gas	6
	Dec. 18	Nanticoke #1	Nanticoke	Inrush of quicksand	26
1886	Aug. 30	Fair Lawn	Scranton	Explosion of gas	6
	Sept. 13	Marvine	Scranton	Suffocated by gas	8
	Nov. 26	Conyngham	Wilkes-Barre	Explosion of gas	12
1887	Apr. 27	Tunnel	Ashland	Suffocated by gas	5
	Oct. 1	Bast	Big Mine Run	Explosion of gas	5
1889	May 9	Kaska, William	Middleport	Car fell on cage in shaft	10
1890	Feb. 1	Nottingham	Plymouth	Explosion of gas	8
	Mar. 3	S. Wilkes-Barre #3	Wilkes-Barre	" " "	8
	Apr. 2	Susquehanna #4	Nanticoke	" " "	5
	May 15	Jersey #8	Ashley	" " "	26
1891	Feb. 4	Spring Mtn. #1	Jeanesville	Drowned - water from old workings	13
	Oct. 23	Richardson	Glen Carbon	Suffocated by gas	7
	Nov. 8	Susquehanna #1	Nanticoke	Explosion of gas	12
1892	Apr. 20	Lytle	Minersville	Drowned - water from old workings	10
	July 23	York Farm	Pottsville	Explosion of gas	15
1893	Apr. 1	Neilson	Shamokin	Mine fire	10
	June 22	Susquehanna #1	Nanticoke	Explosion of gas	5
	Sept. 21	Lance #11	Plymouth	" " "	6
1894	Feb. 13	Gaylord	Plymouth	Fall of roof	13
	July 17	East Sugar Loaf	Stockton	Explosion of powder & dynamite	8
	Oct. 8	Luke Fidler	Shamokin	Mine fire	5
	Oct. 11	Henry Clay	Shamokin	Boiler explosion	6
1895	Feb. 18	West Bear Ridge	Mahanoy Plane	Explosion of gas	5
	Oct. 7	Dorrance	Wilkes-Barre	" " "	7
1896	June 28	Twin	Pittston	Fall of roof	58
	Oct. 29	S. Wilkes-Barre #3	Wilkes-Barre	Explosion of gas	6
1897	Jan. 13	Wadesville	Wadesville	Crosshead fell down shaft	5
	Sept. 28	Jermyn #1	Rendham	Mine fire	5
	Oct. 30	Von Storch	Scranton	Mine fire	6
1898	May 26	Kaska, William	Middleport	Drowned - water from old workings	6
	Oct. 1	Midvale	Wilkes-Barre	Mine fire	5
	Nov. 5	Exeter	West Pittston	Car fell on cage in shaft	9
1900	Nov. 9	Buck Mountain	Mahanoy City	Explosion of gas	7
1901	Oct. 25	Buttonwood	Plymouth	" " "	6
1902	Nov. 29	Luke Fidler	Shamokin	" " "	7
	Dec. 9	S. Wilkes-Barre	Wilkes-Barre	Explosion, powder & dynamite	5
1904	Jan. 30	Maple Hill	Mahanoy City	" " " "	5
	May 5	Lance	Plymouth	" " " "	5
	May 5	Locust Gap	Locust Gap	Mine fire	5

Accidents in Which Five or More Persons Were Killed, 1847 - 1949

Year	Date	Colliery	Location of colliery	Cause of accident	Number killed
1904	May 25	Williamstown	Williamstown	Suffocated by gas from mine locomotive	10
	Nov. 2	Auchincloss	Nanticoke	Falling down shaft	10
1905	Feb. 18	Lytle	Minersville	Fall of roof	5
	Mar. 9	Clear Spring	West Pittston	Falling down shaft	7
	Apr. 26	Conyngham	Wilkes-Barre	" " "	10
1906	May 15	Shenandoah City	Shenandoah	Explosion of powder & dynamite	7
	Aug. 6	Susquehanna #7	Nanticoke	Explosion of gas	6
1907	Mar. 2	Holden	Taylor	" " "	7
1908	June 18	Johnson #1	Priceburg	" " "	7
	May 12	Mount Lookout	Wyoming	" " "	12
	May 13	Prospect	Midvale	Fall of roof	5
	July 15	Williamstown	Williamstown	Explosion of powder & dynamite	6
	Aug. 28	Warrior Run	Wilkes-Barre	Mine cars	6
1909	Mar. 2	Pennsylvania #14	Pittston	Explosion of gas	8
	Nov. 9	Auchincloss	Nanticoke	Mine fire	9
1910	Jan. 11	Nottinham	Plymouth	Explosion of gas	7
	Mar. 12	S. Wilkes-Barre #5	Wilkes-Barre	" " "	7
1911	Apr. 7	Pancoast	Throop	Mine fire	72
	May 27	Cameron	Shamokin	Explosion of gas	5
	Sept. 12	Marvine	Scranton	Mine cars	5
	Oct. 3	Drifton #2	Freeland	Cave-in	5
1912	Jan. 9	Parrish	Plymouth	Explosion of gas	6
1913	Aug. 2	East Brookside	Tower City	" " "	20
1914	May 29	Maryd	Maryd	Overwinding of cage	6
	Sept. 16	Lehigh #4	Lansford	Explosion of gas	7
	Dec. 9	Diamond	Scranton	Falling Down shaft	13
1915	Feb. 17	Prospect	Wilkes-Barre	Explosion of gas	13
1916	Feb. 8	Lance #11	Plymouth	" " "	7
	Mar. 9	Hollenback #2	Wilkes-Barre	" " "	6
	Aug. 8	Woodward	Edwardsville	" " "	6
1919	June 5	Baltimore #5, (Baltimore Tunnel)	Wilkes-Barre	Explosion, powder & dynamite	92
	July 8	Lansford	Lansford	Explosion of gas	8
1921	Mar. 9	Rahn	Seek	" " "	5
1922	Nov. 3	Eddy Creek	Scranton	Premature blast	6
1923	Feb. 21	Alliance	Middleport	Explosion of gas	5
	June 26	Richards	Mount Carmel	" " "	5
	Dec. 8	Mount Jessup #2	Jessup	Fall of roof	5
1924	June 6	Loomis	Nanticoke	Explosion of gas	14
1925	May 22	Woodward	Edwardsville	" " "	7
	Aug. 3	Dorrance	Wilkes-Barre	" " "	10
1926	May 6	Randolph	Port Carbon	" " "	5
	July 3	Pettebone	Kingston	" " "	7
	Oct. 30	Susquehanna #7	Nanticoke	" " "	9
1927	May 26	Woodward	Edwardsville	Fall of roof, followed by explosion of gas	7
1928	May 25	Baltimore #5	Wilkes-Barre	Explosion of gas	10
1930	Aug. 8	Gilberton	Gilberton	Fall of roof	8
1931	May 29	Richards	Mt. Carmel	Explosion of gas	5
1935	Jan. 21	Gilberton	Gilberton	" " "	13
	May 7	S. Wilkes-Barre	Wilkes-Barre	Piece of rock fell down shaft, struck cage	7
1936	Aug. 24	Clear Spring	West Pittston	Explosion of gas	5
1938	Apr. 27	St. Clair	St. Clair	" " "	8
	June 2	Volpe	Pittston Twp.	" " "	10
1943	Sept. 24	Primrose	Minersville	" " "	14
1947	Jan. 15	Nottinham	Wilkes-Barre	" " "	15
	Apr. 10	Schooley	Exeter Boro.	" " "	10
	Dec. 11	Franklin	Wilkes-Barre Twp.	" " "	8

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## Stripping Report, By Operator, 1949

Dist- rict	Operator & Stripping	Stripping production	Days worked	Empl- oyes
14	Alden Coal Co.	11,592	105	24
26	Alpec Coal Co.	97,868	228	73
21	Jos. Banks Construction Co.	800	10	12
25	" "	78,939	206	30
	Total for Co.	79,739		42
16	Beaver Brook Coal Co.	16,876	111	10
1	John Booth, Inc.	168,586	239	70
1	Botscheller Coal Co.	6,877	85	8
19	Brenier & Blew	2,840	32	6
24	Bridy, Inc.	20,000	130	24
18	Broad Mountain Fuel Corp.	50,150	251	27
27	Buck Run Colliery Co.	116,799	145	96
	Timothy Burke, Inc.			
1	Stripping	47,618	293	59
2	"	28,789	244	18
	Total for Co.	76,407		77
2	Butler Stripping Co.	3,855	83	7
10	Capone Coal Co.	22,649	*	*
19	Capparell Contracting Co.	100,861	207	79
12	Carey, Baxter & Kennedy	#	234	80
2	C. B. M. Coal Co.	8,058	146	13
22	Centralia Mining Co.	62,793	177	17
19	Coal Rain Coal Co.	16,305	81	12
19	Colitz Coal Co.	137,358	225	64
22	Columbia Coal Co.	4,022	*	*
10	Conlon Coal Co.	13,024	*	*
27	Dando, Jos. P., Sr.	7,188	57	15
1	DeAngelis Coal Co.	98,473	*	*
6	DeRoma Coal Co.	3,992	110	7
1-12	Feweese Bros.	23,695	263	47
14	Duryea Anthracite Co.	42,013	207	22
19	Eagle Hill Coal Co.	75,816	167	25
18	Fairclough Mining Corp.	2,377	43	8
10	Franklin Coal Mining Co.	18,976	*	*
6	Fritz Bros.	572	61	4
25	Fronk, George	3,732	135	5
	Gasparini Stripping Co.			
1	Stripping	2,096	11	6
2	"	732	12	4
3	"	42,703	294	35
26	"	76,730	215	64
	Total for Co.	122,261		109
1	Gateway Coal Co.	87,421	*	*
1	Gianforco Coal Co.	1,334	*	*
20	Gilberton Coal Co.	24,002	190	66
6	Gillizzi Coal Co.	53,993	216	13
	Glen Alden Coal Co.			
7	Nanticoke Ex. Stripping	12,812	206	55
7	Newport " "	193,833	210	95
11	Empire " "	13,300	250	30
11	Kidder " "	32,593	117	15
13	A. E. Dick " "	121,216	261	90
13	Kingston Ex. " "	90,229	274	35
14	Wanania " "	208,117	269	52
16	Audenried	132,921	251	91
	Total for Co.	805,021		463
25	Goodspring Contracting Co.	11,564	78	10
15	Gowen Coal Co.	28,635	200	23
5-10	Greenwood Mining Co.	9,700	54	6
	Haddock Mining Co.			
15	Deringer	25,621	186	42
15	Tomhicken	42,284	186	23
18	Beaver Meadow	30,561	185	85
		98,466		150

Stripping Report, By Operator, 1949

Dist- rict	Operator & Stripping	Stripping production	Days worked	Empl- oyes
21	Hamilton Construction Co.	13,505	79	21
22	Hammond Coal Co.	120,048	200	76
16	Harbon Coal & Contracting Co.	11,029	78	23
6	Harris & Walsh	29,263	83	20
9	Harry E. Coal Co.	12,519	97	20
22	Hazle Brook Coal Co.	98,708		97
6	Heidelberg Coal Co.	22,326	246	10
25	Hinchey & McGinley	36,638	290	28
21	Hoffman Bros.	1,150	38	15
	Hudson Coal Co.			
10	Delaware Stripping	16,246	*	*
10	Pine Ridge "	18,296	*	*
10	Laflin "	17,879	*	*
11	Baltimore "	31,552	250	29
12	Loree "	136,521	*	*
	Total for Co.	220,494		29
	Huss Contracting Co.			
19	Stripping	193,450	191	82
25	"	98,080	198	43
	Total for Co.	291,530		125
15	Hydrotated Anth. Fuel Co.	9,961	43	26
27	Indian Head Coal Co.	18,639	96	35
15	Jeddo-Highland Coal Co.	393,225	256	206
8	Jermyn-Green Coal Co.	3,206	82	8
26	Jones Coal Corp.	19,205	126	36
5	Kehoe-Berge Coal Co.	44,986	211	45
26	Kelly Construction Co.	600	31	6
20	Kohinoor Coal Co.	27,828	142	63
19	Kurchock Contracting Co.	2,400	37	12
5	Lackawanna Mining & Construction Co.	86,298	266	41
16	Lattimer Coal Corp.	92,276	193	60
21	L. & C. Coal Co.	2,558	23	12
	Lehigh Navigation Coal Co.			
17	Coaldale Stripping	309,867	189	146
17	Tamaqua "	296,702	185	385
18	Lansford "	445,940	187	297
	Total for Co.	1,052,509		828
	Lehigh Valley Coal Co.			
9	Westmoreland Stripping	15,427	283	7
16	Black Ridge "	30,800	231	18
16	Cranberry "	94,964	221	55
18	Hazleton Shaft "	72,139	235	67
	Total for Co.	213,330		147
6	L. K. Coal Co.	27,757	117	16
20	Locust Coal Co.	191,790	198	148
23	Logan Creek Construction Co.	29,848	164	21
19	Lohb Coal Co.	2,207	31	18
22	Lombardo Coal Co.	6,711	177	7
15	Lombardo & Puglia	3,963	125	7
6	Lynott Coal Co.	819	12	11
22	Mammoth Coal Co.	155,138	*	*
25	Markson Coal Co.	22,937	*	*
1	Masters Coal Co.	17,802	145	19
27	McCarrick Bros.	33,624	134	28
2	McConnell Stripping Co.	2,009	70	7
21	McHale & Santor	22,750	61	15
3	Meadowside Coal Co.	14,433	148	12
2	Mid-Valley Anthracite Co.	3,094	24	5
1	M. & M. Coal Co.	12,005	*	*
	Moffat Coal Co.			
3	Rockwell Stripping	368	4	3
3	Storrs "	54,597	207	21
5	Pyne "	51,356	207	16
5	National "	7,225	262	6
5	Taylor "	4,066	65	12

Stripping Report, By Operator, 1949

Dist- rict	Operator & Stripping	Stripping production	Days worked	Empl- oyes
	Moffat Coal Co. total	117,612		58
2	Moosic Mountain Coal Co.	4,446	86	6
26	Morea Mining Co.	68,449	205	63
21	Morgan, Irvin	5,686	100	12
22	Morris Ridge Coal Co.	131,489	217	114
1	Motley Coal Co.	16,750	*	*
19	Mountain Top Coal Co.	265,056	212	148
19	Musolino Contracting Co.	4,810	49	11
7	Nanticoke Excavating Co.	51,246	250	94
23	Natalie Coal Corp.	113,207	222	153
26	Noakes, Jeff	6,502	79	13
1	Northwest Coal Co.	31,274	*	*
6	Number Nine Coal Co.	38,758	265	21
16	Payne Coal Co.	110,872	238	73
2	Perry Construction Co.	59,841	256	15
6	Petrillo Coal Co.	8,788	124	4
	Phila. & Reading Coal & Iron Co.			
19	Oak Hill Stripping	780,532	218	612
20	Shenandoah "	409,944	202	444
22	Bast "	147,361	179	75
22	Potts "	203,476	175	84
23	Locust Gap "	29,923	92	71
23	Monitor "	208,957	203	214
24	Hepburn "	88,724	151	39
24	Bear Valley "	107,319	176	65
26	Knickerbocker"	173,040	224	146
	Total for Co.	2,149,276		1750
1	Pioneer City Coal Co.	14,018	*	*
8	Plains-Hilldale Coal Co.	34,056	206	17
3	P. & M. Coal Co.	3,779	79	8
2	Popple & Scatina	2,915	81	6
25	Potts, Allen	1,487	25	5
5	Quinn & Walsh	1,657	43	5
22	Raven Run Coal Co.	98,189	207	69
19	Repplier Coal Co.	184,181	171	64
26	Rhoads Contracting Co.	6,669	64	28
24	Rosini Bros.	52,942	*	*
23-25	Sanchez Construction Co.	20,574	105	38
15	Sandy Run Miners & Producers	62,840	244	42
25-27	Scheib & Leitzel	9,069	121	14
25	Schumacher, J. E., & Son	75,817	174	35
25-27	Shade, John	3,267	45	11
1	Simpson Coal Co.	14,042	*	*
1	Slenska Bros.	7,446	172	5
14	Stackhouse Coal Co.	127	49	4
19	St. Clair Coal Co.	188,496	196	76
24	Steam Coals, Inc.	57,432	175	59
16	Steele, T. F., Coal Co.	58,582	123	53
24	Stevens Coal Co.	382,687	171	173
25	Stiely, Wellington	6,350	207	4
24	Sunshine Coal Co.	3,200	*	*
1	Surace, F. L.	4,396	*	*
	Susquehanna Collieries Div.			
	M. A. Hanna Co.			
14	No. 7 Stripping	71,962	196	34
14	Glen Lyon "	79,106	195	30
14	Alden "	6,351	108	*
22	Logan "	146,054	191	65
23	Burke McGrath "	9,174	163	14
23	Capitol "	23,027	69	26
23	Martinez-Bridy"	7,769	49	21
23	Penn Rich "	11,638	61	27
23	United Constr."	19,958	104	16
24	Bear Valley "	7,102	39	21



# Stripping Report, By Operator, 1949

Dist- rict	Operator & Stripping	Stripping production	Days worked	Empl- oyes
	Susquehanna Collieries Div.			
	M. A. Hanna, Contd.			
24	Zerbe Stripping	5,818	36	17
24	Scott 1-2 "	9,734	57	34
	Total for Co.	397,693		305
2-6	Sweeney Bros.	16,110	208	13
6	Talamelli Coal Co.	1,341	33	6
19	Tamaqua Coal Pockets	25,546	*	*
22	Tarrone Coal Co.	19,134	254	9
3	Throop Mining Co.	2,393	38	12
1	Tolerico Stripping Co.	44,142	282	28
16	Trader Horn Coal Co.	63,866	227	35
3	Turnpike Coal Co.	20,390	198	23
27	Valent, Anthony	1,800	51	5
27	Valley Construction Co.	540	14	4
6	Vigoline Coal Co.	2,123	92	6
2	Vispi Coal Co.	6,238	*	*
1	Waddell Coal Co.	8,560	*	*
21	Williams Stripping Co.	47,267	132	83
19	Winton Coal Co.	25,175	198	17
22	Zimmerman Coal Co.	13,301	190	12
	Region total	11,081,087		7765

\* Not segregated from mine and breaker employees and days, therefore, not an accurate record.

# Included in Hudson Coal Co. stripping production

For names and addresses of stripping operators, see list of all operators, general managers and their mailing addresses, elsewhere in the report.

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Twenty-one Year Study of Anthracite, By Counties, 1919

YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	REGION
1921	2,654,820	1,044,724	1,113,018	20,392,400	34,711,150	7,207,553	19,238,222	214,773	655,000	145,759	87,277,449
1930	1,754,134	685,253	867,363	15,312,853	27,456,102	6,719,282	15,673,224	64,071	91,296	122,981	68,776,559
1931	1,886,081	865,424	756,274	12,768,631	23,766,625	5,728,763	12,925,765	75,542	181,773	157,506	59,115,387
1932	1,821,911	997,966	673,078	11,729,255	19,327,982	4,679,188	10,479,627	70,794	97,514	124,196	49,501,511
1933	1,610,409	556,539	652,057	11,090,350	19,861,441	5,102,704	10,252,019	126,101	130,715	125,242	49,507,577
1934	2,057,670	917,520	631,835	12,440,808	21,438,372	5,767,112	12,911,938	189,070	179,236	265,390	56,798,951
1935	1,703,018	824,803	519,467	10,437,254	21,059,166	5,469,278	10,761,971	173,134	216,010	159,010	51,359,111
1936	1,873,797	1,546,144	400,758	11,154,691	21,315,049	5,208,421	12,333,446	213,817	19,169	198,914	54,264,016
1937	2,076,398	1,251,044	481,403	9,117,509	22,487,109	4,604,212	11,461,515	99,879	15,339	102,858	51,700,296
1938	1,947,771	1,157,913	425,871	8,439,828	20,365,737	4,090,787	9,774,216	49,383	7,030	10,975	46,269,511
1939	2,514,152	964,316	476,960	9,198,552	23,377,666	4,815,235	9,885,719	36,684	124,791	5,602	51,399,707
1940	2,175,318	1,026,366	505,558	9,259,463	22,672,016	4,499,444	11,242,175	50,844	86,419	9,071	51,526,454
1941	2,401,711	1,067,173	345,515	8,973,827	24,316,481	4,934,077	11,822,153	49,179	21,686	10,015	53,942,177
1942	2,796,798	998,124	57,479	9,344,388	25,767,343	5,295,913	13,520,162	49,113	62,761	47,248	57,939,629
1943	3,150,839	864,015	229,826	9,449,647	24,082,663	5,463,150	17,396,092	101,977	73,037	3,484	60,511,730
1944	3,644,877	1,147,941	299,349	9,427,467	24,810,042	5,713,444	18,634,594	117,756	46,216	10,903	64,112,589
1945	3,345,258	1,121,228	292,662	8,083,021	21,073,255	5,001,063	16,731,289	187,007	66,452	*	55,901,235
1946	3,166,205	1,457,754	141,800	9,058,331	22,770,658	6,342,793	18,811,399	105,862	123,908	*	61,978,710
1947	2,933,809	1,507,884	28,731	8,538,164	21,990,960	6,779,549	16,259,688	46,785	112,415	*	58,227,985
1948	2,801,893	1,679,495	10,254	8,610,861	21,591,816	6,937,340	17,275,544	63,230	138,327	*	59,108,810
1949	2,126,682	1,380,732	61,389	6,221,743	15,989,846	5,200,490	13,538,194	23,585	167,457	*	44,710,118
1924	4,776	2,213	2,043	35,846	63,308	14,660	37,672	708	1,178	99	162,503
1930	4,216	1,757	2,016	36,317	61,114	11,354	33,082	584	457	274	151,171
1931	4,160	1,290	1,766	33,797	59,225	11,326	25,654	586	254	342	136,400
1932	3,870	997	1,657	29,700	50,231	10,084	21,507	703	454	297	119,480
1933	3,392	1,009	1,285	21,375	44,450	7,980	21,547	718	203	510	102,469
1934	4,344	948	1,126	22,954	46,737	8,161	21,062	510	200	209	106,251
1935	4,935	1,324	1,012	20,889	43,701	7,757	19,697	596	403	225	100,539
1936	5,517	1,697	888	19,607	44,454	7,525	19,159	611	27	219	99,704
1937	4,282	1,871	877	19,188	45,755	7,489	19,002	426	158	69	99,117
1938	4,713	1,951	918	17,818	45,731	7,473	18,065	442	20	20	97,021
1939	4,686	1,913	904	17,875	43,344	7,637	16,494	215	235	19	93,352
1940	4,376	1,664	867	16,860	43,238	7,397	16,039	187	145	17	90,790
1941	4,446	1,489	587	14,974	43,726	6,815	16,615	144	37	16	88,849
1942	4,443	1,486	553	14,388	39,219	6,498	16,945	104	38	43	83,707
1943	4,337	1,316	130	13,064	35,807	6,485	18,052	164	14	*	79,369
1944	4,910	1,711	149	12,344	33,660	6,409	18,721	211	*	*	78,445
1945	4,588	1,954	195	11,400	32,888	5,877	19,127	207	29	*	76,265
1946	4,599	2,162	300	12,010	34,526	6,124	20,613	181	41	*	80,556

Empl-  
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Twenty-one Year Study of Anthracite, By Counties, 1919

	YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	REGION
Emp1- oyes, cont'd.	1917	1,891	2,319	152	12,381	33,869	6,636	20,302	127	53	*	80,730
	1918	4,637	1,963	61	12,222	31,282	6,521	20,523 i	140	41	*	80,390
	1919	4,420	1,760	83	11,702	35,040	6,009	20,047 j	104	44	*	79,209
	1924	278	225	277	276	270	273	271	121	298	295	271
Average days worked	1930	175	147	184	212	213	265	196	66	115	159	210
	1931	176	178	185	185	175	185	185	66	183	198	180
	1932	139	161	167	169	154	181	164	96	57	106	160
	1933	134	156	191	170	170	211	167	75	192	127	179
	1934	174	218	221	235	192	240	195	174	206	270	206
	1935	147	135	193	206	181	222	181	143	217	198	187
	1936	142	215	159	224	181	213	188	208	171	181	193
	1937	169	202	201	186	190	186	180	123	86	141	186
	1938	166	191	192	178	168	176	168 a	103	85	163	171
	1939	175	164	205	180	190	194	175 b	100	186	144	185
	1940	180	194	204	195	183	180	191 c	132	142	142	187
	1941	190	184	221	205	196	217	196 d	188	154	159	199
	1942	230	235	39	241	259	236	234 e	210	212	219	216
	1943	267	267	287	273	277	259	258 f	239	234	*	269
	1944	293	292	312	300	304	282	274 g	282	*	*	292
	1945	265	267	270	267	274	258	250 h	260	174	*	265
	1946	262	234	74	275	278	257	251	217	272	*	266
	1947	269	270	139	272	283	269	277	183	255	*	277
Fatal- ities	1948	272	163	199	279	281	285	250 i	202	188	-	268
	1949	197	291	115	224	188	234	216 j	123	260	-	207
	1924	11	11	7	125	193	38	110	-	1	-	496
	1930	11	-	5	108	164	29	123	-	1	-	444
	1931	6	4	4	116	151	32	67	1	3	3	444
	1932	3	1	8	59	116	13	42	-	-	1	243
	1933	3	-	1	59	110	14	43	2	-	-	232
	1934	7	4	2	59	114	24	47	1	2	-	260
	1935	4	3	7	50	123	16	61	3	-	-	267
	1936	4	-	2	50	137	14	34	-	-	-	261
	1937	5	6	9	35	102	15	38	1	-	1	211
	1938	6	4	5	49	102	13	44	-	-	-	223
	1939	7	5	3	46	108	13	27	-	1	-	210
	1940	6	2	3	35	93	10	33	-	-	-	182
	1941	8	2	2	37	98	7	35	-	-	-	189
	1942	4	6	-	35	128	16	36	-	-	-	225
	1943	7	5	-	36	103	13	54	-	-	-	218
	1944	12	4	1	37	70	15	32	-	-	-	171

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YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	REGION
1915	6	6	-	27	53	13	32	1	-	-	138
1916	6	6	-	27	79	12	38	1	-	-	169
1917	4	5	-	25	104	13	15	-	-	-	166
1918	5	3	-	19	65	5	34	-	-	-	131
1919	3	1	-	8	60	2	18	-	-	-	92
1924	1,325,996	498,917	566,352	9,879,932	17,094,203	4,008,190	10,214,942	85,557	350,817	29,205	44,054,111
1930	738,578	257,535	371,794	7,689,354	12,990,705	3,010,032	6,482,976	38,484	52,749	43,458	31,675,665
1931	730,607	230,208	349,013	6,288,064	10,359,468	2,100,810	4,748,290	38,404	46,601	67,648	24,959,113
1932	537,711	160,097	276,268	5,011,732	7,724,183	1,822,717	3,516,543	67,632	25,763	31,228	19,173,874
1933	455,966	157,495	244,098	4,462,932	7,539,709	1,681,984	3,601,752	54,129	38,976	64,680	18,301,721
1934	756,134	206,878	248,595	5,384,563	8,991,190	1,958,718	4,097,456	88,891	53,800	56,430	21,842,955
1935	727,462	178,122	248,595	7,899,403	1,924,406	1,724,329	3,570,398	85,202	87,390	44,585	18,814,287
1936	781,883	367,474	411,498	4,309,651	8,048,873	1,606,329	3,598,172	127,098	4,275	39,496	19,154,257
1937	725,560	176,737	3,564,769	8,680,115	1,395,236	1,606,329	3,598,172	52,506	13,648	9,714	18,403,374
1938	783,866	372,519	175,948	7,699,347	1,316,707	1,395,236	3,039,160	28,581	3,570	3,257	16,585,464
1939	821,611	318,779	185,320	8,234,943	1,483,189	1,483,189	2,888,408	21,382	43,656	2,735	17,225,261
Man-days	789,347	322,265	176,868	3,288,238	7,959,512	1,328,685	3,067,449	24,683	20,590	2,444	16,979,821
1940	846,859	274,325	129,826	8,586,535	1,479,290	1,479,290	3,260,577	27,035	5,708	2,544	17,676,304
1941	1,021,633	349,214	21,313	3,462,164	1,535,344	1,535,344	3,972,271	21,884	8,066	9,432	20,565,137
1942	1,156,102	351,130	37,310	3,571,795	9,902,178	1,680,211	4,659,536	39,286	3,276	*	21,400,826
1943	1,446,126	500,067	46,488	3,703,717	10,246,301	1,681,792	5,125,620	59,589	5,054	*	22,809,700
1944	1,213,299	522,380	50,878	3,075,875	9,907,593	1,516,281	4,783,602	53,892	16,225	*	20,229,484
1945	1,203,296	506,786	22,220	3,308,524	9,599,152	1,572,477	5,179,903	39,356	5,202	*	21,447,939
1946	1,320,100	626,568	2,873	3,382,378	9,602,447	1,790,633	5,639,097	23,233	7,404	*	22,392,531
1947	1,259,080	319,830	12,152	3,409,360	9,641,708	1,725,123	5,130,772	28,335	16,320	*	21,534,064
1948	870,672	511,400	9,553	2,618,620	6,578,335	1,405,854	4,338,959	12,760	175,963	*	16,362,473
1924	244,347	94,975	159,007	163,139	179,851	189,672	174,893	-	655,000	-	175,963
1930	159,467	-	173,473	141,786	167,415	232,734	127,425	-	91,296	40,994	154,902
1931	314,347	216,356	189,069	110,074	157,395	179,024	192,922	75,542	-	52,502	153,946
1932	607,304	497,966	84,135	198,801	166,621	369,938	249,515	-	-	124,196	203,710
1933	536,803	-	652,057	187,972	180,559	364,479	238,449	63,051	-	-	213,395
1934	293,953	229,380	315,918	210,861	188,056	240,296	274,722	189,070	89,618	-	218,458
1935	425,755	274,934	78,495	208,745	171,213	341,830	176,426	59,711	-	-	192,356
1936	468,449	-	200,379	223,092	155,584	372,014	362,743	-	-	-	225,162
1937	445,280	208,507	53,823	220,600	306,947	306,947	302,462	99,879	-	102,858	243,869
1938	324,629	289,478	85,174	172,211	199,664	314,676	222,001	-	-	-	207,487
1939	359,165	192,869	158,987	199,969	216,460	370,403	366,138	-	124,791	-	244,761
1940	362,558	513,183	188,519	264,556	243,785	449,946	340,672	-	-	-	283,112
1941	300,218	533,736	172,773	242,536	242,536	704,868	337,776	-	-	-	285,408
1942	699,200	166,354	-	266,983	201,307	330,995	375,568	-	-	-	257,509
1943	450,120	172,203	-	254,157	233,812	420,242	322,150	-	-	-	271,577

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YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	REGION
1984	303,740	286,985	299,349	254,796	354,429	382,896	588,581	-	-	-	374,927
1945	557,543	186,871	-	299,371	397,609	384,697	522,853	187,007	-	-	405,081
1946	527,701	242,959	-	335,494	288,236	528,566	495,037	105,862	-	-	366,738
1947	733,452	301,577	-	341,527	213,659	521,504	1,083,979	-	-	-	350,871
1948	560,379	559,832	-	453,204	332,182	1,387,468	508,104	-	-	-	451,212
contd.	708,894	1,380,732	-	777,718	266,497	2,500,245	752,121	-	-	-	485,980
1924	8.30	22.05	12.36	12.65	11.29	9.48	10.77	-	2.85	-	11.26
1930	14.89	-	13.45	14.05	12.62	9.63	18.97	-	18.96	69.03	14.02
1931	8.21	17.38	11.46	18.45	14.58	15.23	14.11	26.04	-	44.35	15.39
1932	5.58	6.25	28.96	11.77	15.02	7.13	11.94	-	-	32.02	12.67
1933	6.58	-	4.10	13.22	14.59	8.32	11.94	36.95	-	-	12.68
1934	9.25	19.34	8.05	10.96	12.68	12.25	11.47	11.25	37.17	-	11.90
1935	5.50	16.84	35.77	11.62	15.57	9.28	17.08	35.21	-	-	14.19
1936	5.12	-	14.13	11.26	17.02	8.71	9.45	-	-	-	12.52
1937	6.89	15.84	50.92	9.82	11.75	10.75	11.16	19.04	-	102.94	11.52
1938	7.66	10.74	28.42	15.49	13.25	9.87	14.49	-	-	-	13.45
1939	8.52	15.68	16.19	14.26	13.11	8.76	9.35	-	22.91	-	12.19
1940	7.60	6.21	16.96	10.64	11.68	7.53	10.76	-	-	-	10.72
1941	9.45	7.29	15.41	12.08	11.41	4.73	10.73	-	-	-	10.69
1942	3.92	17.18	-	10.11	12.59	10.42	9.06	-	-	-	10.94
1943	6.05	14.24	-	10.08	10.40	7.74	11.59	-	-	-	10.19
1944	8.30	8.00	21.51	9.99	6.83	8.92	6.24	-	-	-	7.50
1945	4.94	11.49	-	8.78	5.88	8.57	6.69	18.56	-	-	6.82
1946	4.99	11.84	-	8.16	8.23	7.63	7.34	25.41	-	-	7.88
1947	3.03	7.98	-	7.39	10.83	7.26	2.66	-	-	-	7.47
1948	3.97	9.38	-	5.57	6.74	2.90	6.63	-	-	-	6.08
1949	3.45	1.96	-	3.06	9.12	1.42	4.15	-	-	-	5.62

The year 1924 was selected as a normal year, in order that comparison might be made with the depression years that are made part of this report.

a - Includes 6,184 tons, 13 employees, 124 days and 1,612 man-days for Lebanon County

b -	"	13,927	"	5	"	198	"	"	"	"	"
c -	"	17,330	"	13	"	136	"	"	"	"	"
d -	"	30,716	"	26	"	187	"	"	"	"	"
e -	"	35,641	"	39	"	118	"	"	"	"	"
f -	"	21,981	"	22	"	257	"	"	"	"	"
g -	"	21,550	"	14	"	210	"	"	"	"	"
h -	"	37,690	"	41	"	241	"	"	"	"	"
i -	"	21,982	"	6	"	223	"	"	"	"	"
j -	"	21,763	"	7	"	226	"	"	"	"	"

Compiled, typed: Ber

FATALITIES PER MILLION MAN-HOURS, BY  
MONTHS, FOR THE YEARS 1948 AND 1949.

	<u>1949</u>		<u>1948</u>
January . . . . .	0.80	. . . . .	1.39
February . . . . .	0.99	. . . . .	0.80
March . . . . .	0.84	. . . . .	0.91
April . . . . .	0.90	. . . . .	0.68
May . . . . .	1.00	. . . . .	0.61
June . . . . .	0.54	. . . . .	0.58
July . . . . .	0.22	. . . . .	1.10
August . . . . .	0.66	. . . . .	1.07
September . . . . .	0.51	. . . . .	0.78
October . . . . .	0.83	. . . . .	0.58
November . . . . .	1.00	. . . . .	0.91
December . . . . .	1.02	. . . . .	0.56
YEAR . . . . .	0.80	. . . . .	0.85

Anthracite Operators, General Managers, Mailing Addresses

Dist- rict	Operator	General Manager	Address
19	A. & A. Coal Co.	Henry Altmiller	Valley View, Pa.
2	Ace Coal Co.	Enrico Bevilacqua	Blakeley, Pa.
21	Adelphi Coal Mining Co.	A. Zifferblatt, Girard Trust Bldg.,	Philadelphia, Pa.
6	Adelphia Coal Co.	Hopkins Morgan, 115 Church St.	Hazleton, Pa.
1	A. & F. Coal Co.	Rinaldo Alberigi	Jessup, Pa.
2	A. F. & L. Coal Co.	Angelo Falzone	Pittston, Pa.
27	Alarcon, Frank	Frank Alarcon	Keiser, Pa.
2	#Albanese Coal Co.	Angelo Albanese	Dummore, Pa.
1-3	Alberigi Coal Co.	Rinaldo Alberigi	Jessup, Pa.
11	# Alden Coal Co.	John C. Haddock	Wilkes-Barre, Pa.
26	Alpec Coal Co.	Albert Peca	Mahanoy City, Pa.
20	Altamont Coal Co.	Ralph Tanaglia	Frackville, Pa.
17	Anthracite Enterprises, Inc.	W. H. Lesser	Nesquehoning, Pa.
2	A. & R. Coal Co.	Ralph Riccini	Jessup, Pa.
20	Atkins Coal Co.	Henry Atkins	Frackville, Pa.
27	Bainbridge, William	William Bainbridge	R.D. 1 Orwigsburg, Pa.
21-25	Banks, Jos., Constr. Co.	Joseph Banks, Central Bldg.,	Wilkes-Barre, Pa.
22	Barzak Coal Co.	Anthony Barzak	Frackville, Pa.
24	# B. & B. Coal Co.	John J. Boback	Shamokin, Pa.
23	Beadle & Rick	Mike Rick	Kulpmont, Pa.
16	Beaver Brook Coal Co.	S. H. Long	Beaver Brook, Pa.
26	Becker & Co.	John Becker	Mahanoy City, Pa.
19	Beckville Coal Co.	Lee Heffner	Cressona, Pa.
2	Beggin Coal Co.	Michael Beggin	Jessup, Pa.
19	#Bell Patterson Coal Co.	Ralph T. Lynch	Brookton, Pa.
3-5-16	Bellevue Coal Co.	Robert E. Nolan, N. Washington Ave.,	Scranton, Pa.
22	Bender Coal Co.	John Bender	Connerton
10	Bernice White Ash C. Co.	William A. Monahan	Mildred, Pa.
20	Bernotsky Coal Co.	Joseph Bernotsky	Shaft, Pa.
12	Bird Mining Co.	Morgan Bird, Jr.	Plymouth
26	Biros & Co.	John Biros	Delano, Pa.
25	Bixler, Oscar	Oscar Bixler	Valley View, Pa.
26	Blaschak & Co.	John Blaschak	Rintown, Pa.
1	Blasi Coal Co.	Dominic Blasi	Archbald, Pa.
2	Blue Flame Coal Co.	John Fanucci	Jessup, Pa.
25	Blyler, Roy	Roy E. Blyler	Valley View, Pa.
6	Boccoline Coal Co.	Frank Boccoline	Old Boston, Pa.
26	Boner & Co.	Ray Webb	Mahanoy City, Pa.
1	Booth, John, Inc.	Charles Booth	Carbondale, Pa.
21	Borelli Coal Co.	Orlando Trassatt	Minersville, Pa.
21	Bosack Coal Co.	Frank Bosack	Llewellyn, Pa.
24	Boslego Coal Co.	Andrew Boslego	Kulpmont, Pa.
1	Botscheller Coal Co.	L. T. Botscheller, 310 Oak St.,	Scranton, Pa.
27	Bowman & Diebert	Henry Bowman	Valley View
21	Branch Coal Corp.	P. J. Goodman	Llewellyn, Pa.
27	Branchdale Coal Co.	Ellet J. Sutts	Branchdale, Pa.
23	Brass Coal Co.	Mrs. Anne Brass	Mt. Carmel, Pa.
26	Brehony & Co.	George Brehony	Frackville, Pa.
19	Brenier & Blew Contrg. Co.	Roger Brenier	Middleport, Pa.
24	Brady, Inc.	Edward Brady	Atlas, Pa.
18	Broad Mountain Fuel Corp.	Major Lee White	Junedale, Pa.
26	Brokenshire & Co.	George Brokenshire	Mahanoy City, Pa.
25	Brown, Robert	Robert Brown	Mahanoy City, Pa.
27	Buck Run Colliery Co.	Allen J. Ryan	Buck Run, Pa.
1-2	Burke, Timothy, Inc.	Timothy Burke, 1022 Marion St.,	Scranton, Pa.
2	#Butler Stripping Co.	Edward Butler	Peckville, Pa.
9	Butter Tub Coal Co.	John Kamor	Wyoming, Pa.
21	B. & W. Coal Co.	Walter Wallacavage	Minersville, Pa.
27	Cano Coal Co.	Ray Cano	Minersville, Pa.
21	#Cano, Ray	Ray Cano	Minersville, Pa.
9-10	Capone Coal Co.	Samuel J. Capone	Luzerne
19	Capparell Contracting Co.	S. J. Capparell	Hazleton, Pa.
16	Carbonizing Coal Co.	Ray E. Davis	Scranton, Pa.
12	Carey, Baxter & Kennedy	W. E. Conroy	Plymouth, Pa.
2	#C. B. M. Coal Co.	Gino Brtoli	Peckville, Pa.



## Anthracite Operators, General Managers, Mailing Addresses

Dist- rict	Operator	General Manager	Address
22	Centralia Mining Co.	Elmer Christ	Centralia, Pa.
8	C. & G. Coal Co.	Daniel Constantino	Yatesville, Pa.
21	#Chornack Bros.	Steve Chornack	Gordon, Pa.
27	C. M. & Z. Coal Co.	Steve Carroll	Minersville, Pa.
19	Coal Rain Coal Co.	Ralph H. Peters	Scranton, Pa.
19	Colitz Coal Co.	Frank Colitz	Pottsville, Pa.
22	Columbia Coal Co.	Leon Mandell	Ashland, Pa.
10	Conlon Coal Co.	Paul J. Conlon	Hudson, Pa.
2	Consagra Coal Co.	Louis Consagra	Blakeley, Pa.
22	C. Q. & W. Coal Co.	Andrew Quiles	Frackville, Pa.
2	Costanzo Coal Co.	Philip Costanzo	Jessup, Pa.
12	Courtdale Coal Co.	Alex Seleski	Luzerne, Pa.
16	Cranberry Mining Co.	Albert Peca	Mahanoy City, Pa.
23	Cullen Coal Co.	John J. Cullen	Mt. Carmel, Pa.
25	Cutler, Steven	Steven Cutler	Goodspring, Pa.
24-27	Dancott Coal Co.	David Evans, 231 Rock St.,	Shamokin, Pa.
27	Dando, Jos. P., Sr.	Joseph P. Dando	Llewellyn, Pa.
27	Dando & Novitsky	Joseph P. Dando, Jr.	Pottsville, Pa.
21	Dantas, Alfred	Alfred Dantas	Cressona, Pa.
24	Dark Corners Coal Co.	Peter Fedorshock, 445 S. Shamok.	Shamokin, Pa.
19	Darkwater Coal Co.	Thomas Newton	Pottsville, Pa.
26	Dasey & Co.	Michael Dasey	Tamaqua, Pa.
27	#D'Attilio, Camillo	Camillo D'Attilio	Minersville, Pa.
27	D. & D. Coal Co.	Angelo Declerico	Minersville, Pa.
1	DeAngelis Coal Co.	Joseph DeAngelis	Carbondale, Pa.
25	Deaven, David	David Deaven	Box 13, Pine Grove, Pa.
25	Deaven, Francis	Francis Deaven	R. D. 3, Myerstown, Pa.
27	Deitrick & Troup	Lewis Deitrich	Gordon, Pa.
26	Dern Coal Co.	Joseph Kluchinsky	Mahanoy City, Pa.
6	DeRoma Coal Co.	John DeRoma, 22 S. Main St.,	Wilkes-Barre, Pa.
1-12	Deweese Bros.	Richard Dewees	Kingston, Pa.
9	Dial Rock Coal Co.	Thomas R. Lewis	Wyoming, Pa.
24	Diminick Coal Sales Co.	Ferdinand Diminick	R. D. #5, Danville, Pa.
21	DiRenzo, Alfred	Alfred DiRenzo	Minersville, Pa.
21	#Dowdowntown Coal Co.	John Marnickas	Minersville, Pa.
10-14	Duryea Anthracite Co.	Charles Adonizio	R. D. #2, Wilkes-Barre, Pa.
1	Dwonczyk Coal Co.	Joseph Dwonczyk	Peckville, Pa.
22	Dyszel Coal Co.	George Dyszel	Lost Creek, Pa.
24	D. & Z. Coal Co.	Stanley Diminick	Box 118, Shamokin, Pa.
19	Eagle Hill Coal Co.	E. P. Whitby	Pottsville, Pa.
27	Ebert, George	George Ebert	R. D. #2, Hegins, Pa.
1	Eddie & Joe Coal Co.	Romaro Molinaro	Peckville, Pa.
20	Engle Coal Co.	Joseph Engle	Shenandoah, Pa.
5	Englewood Coal Co.	Russell Tatusko	Frackville, Pa.
25	Erdman Bros.	Guy Erdman	Valley View, Pa.
23	Exchange Coal Co.	Joseph Cerbaccio	Atlas, Pa.
2	Fabri Coal Co.	Richard Fabri	Jessup, Pa.
18	#Fairclough Mining Corp.	N. B. Fairclough	Beaver Meadow, Pa.
21	Falls Coal Co.	John Zernheldt	Zerbe, Pa.
21	Farley & Laychack	Peter Laychack	R. D. 1, Pottsville, Pa.
21	Fegley & Tretter	Vincent Fegley	Minersville, Pa.
23	Fetterman & Co.	Arnold Fetterman	Mt. Carmel, Pa.
22	Fisher Coal Co.	C. Arthur Fisher	Orwigsburg, Pa.
5	Florine Coal Co.	Anthony Minichello	Old Forge, Pa.
24	Foiari & Louis	Louis Foiari	Box 223, Shamokin, Pa.
26	Forgotsch & Co.	Joseph Forgotsch	Mahanoy City, Pa.
10	Franklin Coal Mining Co.	Joseph Mayers	W. Pittston, Pa.
6	Fritz Bros.	Frank Fritz	315 Lacka. Ave., Dupont, Pa.
25	Frunk, George	George Frunk	Valley View, Pa.
1	F. & W. Coal Co.	Harry Farnetti	Jessup, Pa.
1-2-3-26	Gasparini Stripping Co.	Gene Gasparini	Blakeley, Pa.
1	Gateway Coal Co.	Charles Volpe	Dunmore, Pa.
21	Gauntlett, Roy & Co.	Roy Gauntlett	Zerbe, Pa.
7	Gaylord Coal Co.	Samuel Bird	Plymouth, Pa.
9	Genelow Coal Co.	Joseph Troyan	Wyoming, Pa.
26	German Hauling Co.	Williard German	Mahanoy City, Pa.



Anthracite Operators, General Managers, Mailing Addresses

Dist- rict	Operator	General Manager	Address
1	Gianforco Coal Co.	George Gianforco	Archbald, Pa.
20-22-26	Gilberton Coal Co.	Elmer S. Christ	Gilberton, Pa.
1	Gildea Coal Co.	John A. Gildea, 641 River St.,	Scranton, Pa.
1	Gillen Coal Co.	Thomas Gillen	Carbondale, Pa.
6	Gillizzi Coal Co.	Anthony Gillizzi	Pittston, Pa.
19	Glacier Coal Sales Co.	William Grow	Cumbola, Pa.
3-7-11-12-			
13-14-16	Glen Alden Coal Co.	Henry A. Dierks, 16 S. River St.,	Wilkes-Barre, Pa.
16	Glen City Coal Co.	John Luciana	Bloomsburg, Pa.
5	G. & M. Coal Co.	George Maffei	Scranton 7, Pa.
2	G. M. A. Coal Co.	John Alfonse	Jessup, Pa.
21	Gontarchick Coal Co.	Michael Contarchick	Minersville, Pa.
25	Good Peoples Coal Co.	Harry Witmer	Lykens, Pa.
25	Goodspring Contracting Co.	Thomas George	Goodspring, Pa.
16	Gowen Coal Co.	Elmer Roth	Fern Glen, Pa.
20	Grachowski Coal Co.	Alex Grachowski	Shenandoah, Pa.
2	Gravine Coal Co.	Frank Gravine	Archbald, Pa.
5	Gravity Coal Co.	Don T. Davies	Avoca, Pa.
5-10-15	Greenwood Mining Co.	John S. Marshall, R. D. 2,	Wilkes-Barre, Pa.
2	G. & S. Coal Co.	Leno Giombetti	Jessup, Pa.
2	Guiducci Coal Co.	Andrew Guiducci	Peckville, Pa.
20	Gulbinsky Coal Co.	Julian Gulbinsky	Frackville, Pa.
6	Guzior Coal Co.	Barney Guzior	Dupont, Pa.
21	G. W. B. Coal Co.	Joseph Cavaletz	Minersville, Pa.
15-18	#Haddock Mining Co.	John C. Haddock	Wilkes-Barre, Pa.
26	#Hall & Co.	William Hall	Mahanoy City, Pa.
21	Hamilton Construction Co.	Frank Maurer	Port Carbon, Pa.
22	Hammond Coal Co.	R. L. Birtley	Girardville, Pa.
16	Harbon Coal & Contr'g. Co.	Joseph Harlam	Tamaqua, Pa.
20	Harris Coal Co.	Alex Harris	Shenandoah, Pa.
5-6	Harris & Walsh	Irving Harris, 37 Lacka. Ave.,	Scranton, Pa.
9	Harry E. Coal Co.	Joseph Mayers	W. Pittston, Pa.
27	Hatter, Ernest	Ernest Hatter	Hegins, Pa.
19	Haven Coal & Supply Co.	Chas. D. Manbeck	Schuylkill Haven, Pa.
22	Hazle Brook Coal Co.	C. A. Garner	Jeddo, Pa.
6	Heidelberg Coal Co.	John B. McDade, 1st Nat. Bank Bldg.,	Scranton, Pa.
25	Hentz, Reuben	Barney C. Marshall	Hegins, Pa.
27	Hepler & Otto	John Hepler	R. D. 2, Hegins, Pa.
25	Herb, Allen	Allen Herb	Valley View, Pa.
21	Herb, Austin, & Co.	Austin Herb	Valley View, Pa.
21	Herb & Reed	Roy Herb	Valley View, Pa.
21	Herman, Carl, & Co.	Carl Herman	Minersville, Pa.
25	Herring & Spancake	Lester Herring	Pine Grove, Pa.
25	High Test Coal Co.	H. L. Golden	Goodspring, Pa.
6	Hillside Coal Co.	Gene Popple	Avoca, Pa.
19	Hillside Coal Co.	Theodore Norvidas	Tamaqua, Pa.
22	Hill Vue Coal Co.	Lloyd Neumeister	R.D. 1, Ashland, Pa.
25	Hinchey & McGinley	J. F. Hinchey, Jr.	Centralia, Pa.
21	#Hoffman Bros.	George Hoffman, Sr.	Frackville, Pa.
27	Holohan Coal Co.	Thomas Holohan	R.D. 2, Pottsville, Pa.
24	Hoover Coal Mining Co.	George Hoover	Y. M. C. A., Sunbury, Pa.
1-2-5-10-			
11-12	Hudson Coal Co.	Edgar C. Weichel, 434 Wyoming Ave.,	Scranton, Pa.
19-25	Huss Contracting Co.	George Huss	Ringtown, Pa.
15	Hydrotated Anth. Fuel Co.	H. W. Hastie	Latimer Mines, Pa.
23	Ibanez & Dallibrida	Fred Dallibrida	Keiser, Pa.
21-27	Indian Head Coal Co.	Louis J. Pagnotti	W. Pittston, Pa.
19	Indian Run Coal Co.	Edward Garote	Cressona, Pa.
20	Ivanowski Coal Co.	Walter Ivanowski	Shenandoah, Pa.
15	Jeddo-Highland Coal Co.	C. A. Garner	Jeddo, Pa.
6	Jenkins Coal Co.	Joseph Capone	Pittston, Pa.
6-8	#Jermyn-Green Coal Co.	K. A. Lambert	Pittston, Pa.
27	Joliett Coal Co.	Louis Pagnotti	W. Pittston, Pa.
24	Johnson Coal Sales Co.	Frank O. Johnson, 523 N. Market St.,	Shamokin, Pa.
22	Jonathan Coal Co.	George Fleming	Ashland, Pa.

**Anthracite Operators, General Managers, Mailing Addresses**

Dist- rict	Operator	General Manager	Address
24-25	Jonathan Coal Mining Co.	Arthur P. Baugh, Jr., 1416 Chestnut St., Phila., Pa.	
26	Jones Coal Corp.	John E. Jones	Pottsville, Pa.
26	Jones, John, Coal Co.	John Jones	Mahanoy City, Pa.
5	Junior Coray Coal Co.	Lindo Berrettini	Plains, Pa.
26	Kadelock & Co.	John Kadelock	Delano, Pa.
24	K. & D. Coal Co.	John Dietrich	Shamokin, Pa.
5-9	Kehoe-Berge Coal Co.	John C. Kehoe, Jr.	Pittston, Pa.
21	Keifer, Lawrence	Lawrence Keifer	Branchdale, Pa.
23	Keiser, J. B., & Son	J. B. Keiser	Mt. Carmel, Pa.
26	Kelly Construction Co.	Charles Mogish	Delano, Pa.
3	Keyser Valley Coal Co.	Peter Brojack	Scranton, Pa.
7	Kingston Excavating Co.	John B. Corgan	Kingston, Pa.
12	Kingston Mining Corp.	Morgan Bird, Jr.	Edwardsville, Pa.
20	Klimas Bros.	George Klimas	Shaft, Pa.
27	#Klinger, Talbert	Talbert Klinger	R. D. 1, Ashland, Pa.
19	K. M. F. Coal Service	Joseph Kilousky	Middleport, Pa.
8	Knox Coal Co.	Robert L. Dougherty	Wyoming, Pa.
25	Kocher, Leon	Leon Kocher	Valley View, Pa.
20	Kohinoor Coal Co.	Robert L. Birtley	Shenandoah, Pa.
20	Kolis Coal Co.	Anthony Kolis	Shenandoah, Pa.
20	Kovalick Coal Co.	Michael Kovalick	Shenandoah, Pa.
21	Kozura, Mike	Mike Kozura	Minersville, Pa.
27	#Kramer, Brown & Reibsane	Lester Reibsane	Tower City, Pa.
21	#Kreiser Coal Co.	Frank Kreiser	Pine Grove, Pa.
27	Kroh, Harvey	Harvey Kroh	R. D. 1, Hegins, Pa.
27	Kuntzleman, Osman & Klouser	Walter Kuntzleman	Tower City, Pa.
19	Kurchock Contracting Co.	Joseph Kurchock	Mt. Laffee, Pa.
5	Lacka, Mng. & Constr. Co.	Joseph Grill	Old Forge, Pa.
27	Lamar Coal Co., Inc.	C. S. Maurer	Donaldson, Pa.
12	Larksville Coal Co.	Alex Seleski	Luzerne, Pa.
24	Latsha Coal Co.	Daniel R. Latsha	Box 217, Elysburg, Pa.
16	Lattimer Coal Corp.	George M. Chisnell	Hazleton, Pa.
21	#L. & C. Coal Co.	Joseph Lattore	Atlas, Pa.
25	Legal Coal Co.	H. L. Golden	Goodspring, Pa.
17-18	Lehigh Navigation Coal Co.	D. C. Helms	Lansford, Pa.
9-10-11-			
16-18	Lehigh Valley Coal Co.	K. F. Arbogast, 133 N. River St., Wilkes-Barre, Pa.	
21	Lehman, Marlin	Marlin Lehman	Tremont, Pa.
2	Lemencelli Coal Co.	Peter Lemencelli	Eynon, Pa.
21	Lengle, Luther	Luther Lengle	Pine Grove, Pa.
24	Level Coal Co.	Frank Appel	Box 45, Shamokin, Pa.
24	Little Chief Coal Co.	Ed. J. Nalewak, 807 W. Walnut St., Shamokin, Pa.	
23	#Little & Shecora	Cornelius Little	Kulpmont, Pa.
21	Live Oak Coal Co.	Peter Laychack	R. D. 1, Pottsville, Pa.
6	L. K. Coal Co.	John Kaminski	Avoca, Pa.
5	Lockett Coal Co.	Walter Hughes	Old Forge, Pa.
20	Locust Coal Co.	J. J. Crane	Shenandoah, Pa.
26	Locust Valley Coal Co.	Herman Yaducofsky	Mahanoy City
23	Logan Creek Constr. Co.	Dave Pizzoli	Atlas, Pa.
19	Lohb Coal Co.	J. Harold Fisher	Pottsville, Pa.
22	#Lombardo Coal Co.	Anthony Lombardo	Shaft, Pa.
15	Lombardo & Puglia	Anthony Lombardo	Hazleton, Pa.
24	Lower Region Coal Co.	Modes Foieri	Box 240, Shamokin, Pa.
27	Lucas, John	John Lucas	Branchdale, Pa.
27	Lucas, Joseph	Joseph Lucas	Lykens, Pa.
9	Luzerne County Gas & Elec.	Charles E. Warsaw	Kingston, Pa.
6	Lynott Coal Co.	Joseph Lynott	Pittston, Pa.
21	Macario, John	John Macario	Minersville, Pa.
9	Maffei Coal Co.	George Maffei	Exeter, Pa.
6	Major Coal Co.	Adam Major	Avoca, Pa.
26	Maksymik & Co.	Stanley Maksymik	Shenandoah, Pa.
27	Malho Coal Co.	Anthony Malho	Lavelle, Pa.
20	Mallio Coal Co.	Nicholas Mallio	Gilberton, Pa.

Anthracite Operators, General Managers, Mailing Addresses

Dist- rict	Operator	General Manager	Address
9	Maltby Coal Co.	Joseph Troyan	Wyoming, Pa.
22	Mammoth Coal Co.	Joseph Mayers	W. Pittston, Pa.
25	Markson Coal Co.	Edwin A. Weyman, Box 103	Goodspring, Pa.
25	Martin & Keating	Leroy Martin, 200 Millcreek Ave.,	Pottsville, Pa.
3	Mascelli Coal Co.	Enrico Bevilacqua	Olyphant, Pa.
1	Masters Coal Co.	Richard Masters	Kingsley, Pa.
19	Matleska Coal Co.	John Matleska	Minersville, Pa.
26	Matrishin & Co.	Andrew Matrishin	Barnesville, Pa.
24	Maurer Coal Sales Co.	Charles Maurer, Box 318	Shamokin, Pa.
26	Mazaika Bros.	Edward Mazaika	R. D. Tamaqua, Pa.
1	Mazzoni Coal Co.	Delmo Mazzoni	Jessup, Pa.
6	M. B. Coal Co.	Stanley Barovitz	W. Avoca, Pa.
2	M. & C. Coal Co.	Guido Castellani	Jessup, Pa.
27	McCarrick Bros.	John McCarrick	Tremont, Pa.
2	McConnell Stripping Co.	Robert McConnell	Scranton, Pa.
21	McHale & Santor	James McHale	Port Carbon, Pa.
3	Meadowside Coal Co.	Joseph Rosetti	Dummore, Pa.
20	Melusky Coal Co.	Edward Melusky	Shaft, Pa.
2	Mid Valley Anthracite Co.	Joseph Rosetti	Dummore, Pa.
19	Millard Coal Co.	Joseph E. Millard	Minersville, Pa.
25	Miller, Daniel	Daniel Miller	Valley View, Pa.
25	Miller, Franklin	Franklin J. Miller	Ravine, Pa.
25	Miller, Robert	Robert L. Miller	Pine Grove, Pa.
27	Mine Hill Coal Co.	Chas. Martin	Minersville, Pa.
3	Minichello Coal Co.	John Hutchins	Peckville, Pa.
5	# Minichello, L. J., C. Co.	L. J. Minichello	Peckville, Pa.
26	M. & K. Coal Co.	Michael Kodis	Mahanoy City, Pa.
1	M. & M. Coal Co.	Michael Mikulak	Simpson, Pa.
3-5	Moffat Coal Co.	Earl Lamb, P. O. Box 486,	Scranton, Pa.
15	#Monitor Co., Inc.	A. E. Dick, Jr.	Hazleton, Pa.
2	Moosic Mountain C. Co.	Harry Giombetti	Jessup, Pa.
25	Moran, Francis	Francis Moran	Pottsville, Pa.
26	Morea Mining Co.	J. D. Connors	Morea, Pa.
21	Morgan, Irvin	Irvin Morgan	R. D. 3, Ashland, Pa.
25	Morgan, Roy	Roy Morgan	Valley View, Pa.
22	Morris Ridge Coal Co.	Joseph Martinez	Ashland, Pa.
1	Motley Coal Co.	Sandy Consagra	Mayfield, Pa.
5	Mountain Slope Coal Co.	Luke Keating	Old Forge, Pa.
19	Mountain Top Coal Co.	Ralph H. Peters	Scranton, Pa.
25	Moyer, Lloyd	Lloyd Moyer	R. D. 3, Pine Grove, Pa.
21	M. & S. Coal Co.	A. J. Schrader	R. D. 1, Minersville, Pa.
19	Mt. Laffee Coal Co.	Dave Smith	Mt. Laffee, Pa.
19	Musolino Contracting Co.	Anthony Musolino	Hazleton, Pa.
24	Mutual Coal Co.	Walter Krazick	Excelsior, Pa.
21	M. V. M. Coal Co.	Tony Valent	Palo Alto, Pa.
6	Namura Coal Co.	Charles Namura	Peckville, Pa.
7	Nanticoke Excavating Co.	L. F. Biscontini	Nanticoke, Pa.
6	Nardone Coal Co.	Louis Sarf	Pittston, Pa.
23	Natalie Coal Corp.	Peter Mucha	Mt. Carmel, Pa.
2-3	Nay Aug Coal Co.	Patrick Walsh	Scranton, Pa.
26	Noakes, Jeff	Jeff Noakes	Mahanoy City, Pa.
26	North Mahanoy Coal Co.	Earl McLaren	Mahanoy City, Pa.
1-3	Northwest Coal Co.	Albert Mascelli	Carbondale, Pa.
16	Norvidas & Palko	Theodore Norvidas	Tamaqua, Pa.
18	#Norvidas & Patrick	Leonard Patrick	R. D. 3, Tamaqua, Pa.
6-8	Number Nine Coal Co.	Joseph Mayers	W. Pittston, Pa.
8	Number Fourteen Coal Co.	Charles Gelso	Pittston, Pa.
24	Oak Coal Yard	Ernest Landis	Tharptown, Pa.
5	Old Forge Coal Co.	Albert Minichello	Old Forge, Pa.
27	Olenick & Sons	John Olenick	R. D. 1, Pottsville, Pa.
2	Ondrick Coal Co.	John Ondrick	Clarks Summit, Pa.
27	Orchard Coal Co.	Ross Withelder	Zerbe, Pa.
27	Otto, C. M., & Son	Herman C. Otto	R. D. 2, Hegins, Pa.
22	Otto Collieries Co.	Paul Williamson	Ashland, Pa.
25	Otto Miners	Norman R. Otto	Hegins, Pa.

Anthracite Operators, General Managers, Mailing Addresses

Dist- rict	Operator	General Manager	Address
3-5-6	Panzitta Coal Co.	Dominick Panzitta	Pittston, Pa.
9-16	Payne Coal Co.	Bruce Payne	Wilkes-Barre, Pa.
26	Peca Coal Co.	Albert Peca	Mahanoy City, Pa.
27	Penag Coal Co.	Edward V. Twigg	Shamokin, Pa.
1	Penbrook Coal Co.	Richard Fabri	Archbald, Pa.
19	Penna Coal Co.	Joseph Penna	Minersville, Pa.
3	Penn Anthracite Co.	F. D. Shoemaker	Scranton, Pa.
2-8	Pennsylvania Coal Co.	Ralph A. Lambert	Scranton, Pa.
27	Pernick, Frank, Jr.	Frank Pernick	Minersville, Pa.
2	Perry Construction Co.	Alex Fink	Scranton, Pa.
6	Petrillo Coal Co.	Angelo Petrillo	Exeter, Pa.
20	Petrock Coal Co.	Peter Petrock	Shenandoah, Pa.
19-20-22-23-			
24-25-26	Phila. & Reading C. & I. Co.	Edward G. Fox	Pottsville, Pa.
21	Phoenix Coal Co.	R. E. Watkins, Box 630,	Pottsville, Pa.
26	Phoenix Contracting Co.	Bart Herrity	Ashland, Pa.
25	Pine Creek Coal Co.	Harrison Klinger	Spring Glen, Pa.
22	Pine Ridge Mining Co.	J. Klemen	Ashland, Pa.
1	Pioneer City Coal Co.	Angelo Giombetti	Jessup, Pa.
23	#Pioneer Construction Co.	Charles Steiner	Shamokin, Pa.
8	P. & J. Coal Co.	Joseph Sindaco	Pittston, Pa.
8	Plains-Hilldale Coal Co.	Carlo Saporito	Wilkes-Barre, Pa.
1	Ploskonka Coal Co.	Louis Ploskonka	Peckville, Pa.
3	P. & M. Coal Co.	Bruno Miletta	Old Forge, Pa.
21	Polinsky, John	John Polinsky	Pottsville, Pa.
2	Pompey Coal Co.	Charles Pompey	Jessup, Pa.
2	Popple & Scatina	Peter Scatina	Pittston, Pa.
25	Potts, Allen	Allen Potts	Pine Grove, Pa.
10	Pringle Coal Co.	M. J. Luksic	Luzerne, Pa.
20	Pronio Coal Co.	Anthony Pronio	Shenandoah, Pa.
20	Pryzbilick Coal Co.	Joseph Pryzbilick	Shenandoah, Pa.
24	Quality Coal Sales Co.	Clarence Weimer	Shamokin, Pa.
5	#Quinn & Walsh	Patrick Walsh	Scranton, Pa.
25	Raudenbush, Joseph	Joseph Raudenbush	Williamstown, Pa.
22	Raven Run Coal Co.	C. A. Garner	Jeddo, Pa.
20-23	Reading Briquet Co.	T. H. Butcher	Mahanoy City, Pa.
2	Red Creek Mining Co.	John Federowitch	Jessup, Pa.
24	Reidinger Coal Service	Victor Reidinger	Paxinos, Pa.
21-25	Reilly, Chas. L.	Charles L. Reilly	Pottsville, Pa.
21	Reilly, Eugene, & Co.	Eugene Reilly	Minersville, Pa.
21	Reiner & Shallhammer	Raymond Reiner	Muir, Pa.
21	Renninger Coal Co.	Ted Renninger	Zerbe, Pa.
19	Replier Coal Co.	A. F. Connell	Buck Run, Pa.
2	R. & F. Coal Co.	Primo Fidati	Jessup, Pa.
25-26	Rhoads Contracting Co.	C. E. Machamer	Ashland, Pa.
3-6	Rhonda Coal Co.	Ray E. Davis, Bowman Bldg.,	Scranton, Pa.
21	Rickert Bros.	Thomas Rickert	Tower City, Pa.
25	Rigdosh, George, & Co.	Earl Bush	Tower City, Pa.
27	Rizzardi Coal Co., Inc.	Arnold H. Rizzardi	Minersville, Pa.
2	Rosetti Coal Co.	Ubaldo Rosetti	Jessup, Pa.
24	Rosini Bros.	Odono Rosini	Shamokin, Pa.
21	Rowbottom, James	James Rowbottom	Pottsville, Pa.
26	Royal Anth. Coal Co.	Roy Allen	Tamaqua, Pa.
21	Rushanan & Sons	John Rushanan	Minersville, Pa.
6	Russell Coal Co.	Stephen DuBernas	Old Forge, Pa.
9	R. & W. Coal Co.	Elwood Richards	Exeter, Pa.
26	Rymar & Co.	John Rymar	McAdoo, Pa.
27	Sabadish & Cherrybon	Joseph Sabadish	Pottsville, Pa.
1	Sacco Coal Co.	Frank Sacco	Jessup, Pa.
27	S. A. & J. Coal Co.	John Trassat	Minersville, Pa.
19	Salem Hill Coal Co.	J. J. Crane	Shenandoah, Pa.
21	Salem, James	James Salem	Tremont, Pa.
1	Salvaggio Coal Co.	Sam Salvaggio	Mayfield, Pa.
23-25	Sanchez Construction Co.	Alonzo Sanchez	Minersville, Pa.
15	Sandy Run Miners, Producers	Thomas George, Jr.	Freeland, Pa.

**Anthracite Operators, General Managers, Mailing Addresses**

Dist- rict	Operator	General Manager	Address
6	Saratore Coal Co.	Peter Saratore	Dupont, Pa.
6-8	Sarf Coal Co.	Louis Sarf	Pittston, Pa.
20	Sarra Coal Co.	Carmen Sarra	Frackville, Pa.
27	Saunders Coal Mining Co.	Salvey Saunders	Minersville, Pa.
25-27	Scheib & Leitzel	Floyd Scheib	Hegins, Pa.
27	Schneck Coal Co.	Clinton R. Schneck	R. D. 1, Pine Grove, Pa.
25	Schneck, Thos.	Thos. W. Schneck	Suedberg, Pa.
21	Schrader Coal Co.	A. J. Schrader	Minersville, Pa.
25	Schumacher, J. E., & Son	John E. Schumacher	Box 689, Pottsville, Pa.
5	Schuster Coal Co.	Henry Schuster, 1021 S. Wyoming Ave.,	Scranton, Pa.
25	Schwalm, William, & Co.	William H. Schwalm	Valley View, Pa.
20	Seltzer Coal Co.	Frank Seltzer	Frackville, Pa.
20	#Sergynsky Coal Co.	Edward Sergynsky	Shenandoah, Pa.
25-27	Shade, John	John Shade	Valley View, Pa.
25	Shade, Lawrence	Lawrence Shade	Valley View, Pa.
24	Sharp Coal Sales Co.	Robert Sharp, 13 E. Commerce St.,	Shamokin, Pa.
21	Sherman Mountain Coal Co.	Harry Hartz	Tremont, Pa.
21	Silverton Coal Co.	Frank Shortino	Cressona, Pa.
26	Simoes & Co.	Manuel Simoes	Mahanoy City, Pa.
1	Simpson Coal Co.	Steve Yancheck	Carbondale, Pa.
26	Sincavage & Co.	Charles Sincavage	Mahanoy City, Pa.
26	Skytop Coal Co.	Daniel Pereira	Mahanoy City, Pa.
1	#Slenska Bros.	John Slenska	N. Scranton, Pa.
20	Slominsky Coal Co.	Leo Slominsky	Shenandoah, Pa.
20	Snowshoe Coal Co.	Manuel Delpazo	Frackville, Pa.
3	Snyder Coal Co.	Nelson Snyder	Scranton, Pa.
2	Sobleskie Coal Co.	John Sobleskie	Jessup, Pa.
3	#Sproul Construction Co.	J. H. Sproul	Scranton, Pa.
14	Stackhouse Coal Co.	R. K. Bullock	Shickshinny, Pa.
5	Standard Breaker Corp.	Lowther T. Brown	Avoca, Pa.
24	Stanley Coal Co., Inc.	A. A. Graybill, 934 W. Pine St.,	Shamokin, Pa.
20	Stauffer Coal Co.	Nelson Stauffer	Shaft, Pa.
19	St. Clair Coal Co.	H. M. Smyth	St. Clair, Pa.
24	Steam Coals, Inc.	H. W. Lark	Box 12, Shamokin, Pa.
16	Steele, T. F., C. Co.	E. J. Gibbons	Junedale, Pa.
24-25	Stevens Coal Co.	Joseph H. Jones	Trevorton, Pa.
27	Stiely, Wellington	Wellington Stiely	R. D. 1, Hegins, Pa.
6	Stodnick Coal Co.	George Stodnick	Dupont, Pa.
25	Stump, Franklin B.	Franklin B. Stump	Pine Grove, Pa.
27	Stutzman, Charles, & Co.	Charles Stutzman	Hegins, Pa.
9	Sullivan Trail Coal Co.	Joseph Mayers	W. Pittston, Pa.
24	Sunshine Coal Co.	Ralph Steinhart	Trevorton, Pa.
1	Supreme Anth. Coal Co.	John Hudson	Peckville, Pa.
1	Surace, F. L.	Frank L. Surace	Childs, Pa.
19	Susan Coal Co.	John Watcher	Frackville, Pa.
14-22-	Susquehanna Colls. Div.		
23-24	M. A. Hanna Co.	C. A. Gibbons	Nanticoke, Pa.
6	Sussex Coal Co.	C. E. Banker	Pittston, Pa.
21	Swatara Coal Co.	John Butcavage	Minersville, Pa.
2-6	Sweeney Bros.	W. H. Bircher <sup>1</sup> , 40 Poplar St.,	Scranton, Pa.
24	Swift Coal Co.	Adam Swift, 1100 Center St.,	Shamokin, Pa.
22	Swilp Coal Co.	Joseph Swilp	Connerton, Pa.
2	Swoyer Coal Co.	Harry Swoyer	Maplewood, Pa.
6	#Talamelli Coal Co.	Velio Talamelli	W. Wyoming, Pa.
19	Tamaqua Coal Pockets	Norman Warne	Tamaqua, Pa.
22	Tarrone Coal Co.	Anthony Tarrone	Raven Run, Pa.
2	Tetto Coal Co.	Frank Tetto	Jessup, Pa.
3	Throop Mining Co.	Angelo Falzone	Pittston, Pa.
1	Tolerico Stripping Co.	Constance Tolerico	Simpson, Pa.
16	Trader Horn Coal Co.	Waldemar Hartman	McAdoo, Pa.
27	Troup, Warren	Warren Troup	Ashland, Pa.
21	T. & T. Construction Co.	E. J. Taylor	Tremont, Pa.
22	Tunnel Coal Co.	Frank Mucha	Frackville, Pa.
3	Turnpike Coal Co.	John Vitali	Dunmore, Pa.



Anthracite Operators, General Managers, Mailing Addresses

Dist- rict	Operator	General Manager	Address
27	Valent, Anthony	Anthony Valent	Pottsville, Pa.
27	Valley Construction Co.	George Fronk	Valley View, Pa.
6-8	Valley View Coal Co.	John A. Hart, Scranton Nat. Bank Bldg., Scranton, Pa.	
26	Valsuk & Co.	Sophie Valsuk	Frackville, Pa.
5	V. Coal Co.	Thomas Galbraith	Scranton, Pa.
6	Vigoline Coal Co.	Dominick Vigoline	Hughestown, Pa.
2	Village Slope Coal Co.	Louis Coccodrilli	Jessup, Pa.
2	V. & L. Coal Co.	John Vitroli	Jessup, Pa.
2	Vispi Coal Co.	Raymond Vispi	Olyphant, Pa.
21	Vsay, Frank	Frank Vsay	Minersville, Pa.
1	Waddell Coal Co.	Peter Brojack	Winton, Pa.
27	Walaitis Coal Co.	John Walaitis	Frackville, Pa.
6	Warnes Coal Co.	Joseph Warnes	Old Forge, Pa.
27	Wentz Partnership	Stanley Wentz	Marlin, Pa.
22	Wentzel Coal Co.	John Verbish	Gordon, Pa.
21	Wertz, Elmer	J. Harold Fisher	Pottsville, Pa.
26	Wessner Coal Co.	Lester Wessner	R. D. Tamaqua, Pa.
9	West Exeter Coal Co.	Thomas R. Lewis	Wyoming, Pa.
10	West Side Coal Co.	Walter Songalia	Luzerne, Pa.
3	West Slope Coal Corp.	Harry Cimini	Scranton, Pa.
27	Whiteash & Dalsas	Paul Whiteash	Minersville, Pa.
21	Williams Stripping Co.	J. Harold Fisher	Pottsville, Pa.
19	Winton Coal Co.	Joseph Harlam	Tamaqua, Pa.
27	Woznicki & Berger	Stanley Woznicki	Pottsville, Pa.
21	Zerbe & Griffith	Elmer Zerbe	Zerbe, Pa.
22	Zimmerman Coal Co.	J. Zimmerman	Ringtown, Pa.
25	Zimmerman, Ray	Ray Zimmerman	Pine Grove, Pa.
25	Zimmerman & Wenrich	Marlin Zimmerman	Pine Grove, Pa.

476 Operators

# Discontinued operation during the year.

Compiled, typed: Ber

RULES GOVERNING BLASTING IN STRIP MINE  
OPERATIONS IN THE ANTHRACITE REGION

The following rules are published herein as general information. They are being widely adopted as standards for blasting in quarries and open pit mining operations throughout the country:

ACT NO. 472, APPROVED JUNE 27, 1947. SECTION 20 READS AS FOLLOWS:

"The use of explosives for the purpose of blasting in connection with strip mining in the neighborhood of any public highway, stream of water, dwelling house, public building, school, church, commercial or institutional building or pipe line shall be done in accordance with regulations prescribed by and under the supervision of the Department of Mines."

To meet the requirements of Section 20 of the Anthracite Strip Mining Act, the following rules shall be adopted:

1. In no case shall the ground displacement be in excess of .03 inches at any dwelling house, public buildings, schools, churches, commercial or institutional buildings.

2. Where a blast is to be fired within 200 feet of a pipe line, the operator shall exercise such necessary caution as may be needed for the protection of the pipe line. The operator should also notify the owner of said line of his intention to blast as here described, giving a description of the precautionary measures that will be taken.

3. Blasting shall be prohibited in all cases where the effect of such blasting is liable to change the course or channel of any stream, without first obtaining a permit from the Water and Power Resources Board.

4. No blasting shall be done so close to the banks of a stream that the banks would be ruptured or broken, permitting the water to enter the strip mine pit.

5. Public highways shall be barricaded and guarded by the operator in all cases where such highway or highways are located within 800 feet of any point where a blast is about to be fired.

6. Mudcapping will be permitted only where it would endanger the safety of the workmen to drill the rock to be blasted.

7. If mudcapping is necessary, a maximum of 10 pounds of powder may be used.

8. All trunk lines of Primacord should be covered. However, trunk lines of Primacord must be covered if they are within 2,000 feet of such buildings as outlined in Section 20 of Act No. 472.

April 8, 1948

APPROVED:

(s) George A. Roos, Vice President  
Philadelphia & Reading Coal & Iron Co.

(s) Sylvain J. Pirson  
Pennsylvania State College

(s) Edward G. Fox, Gen. Mgr.  
Philadelphia & Reading Coal & Iron Co.

(s) H. A. Lewis, Mgr., Technical Service  
Sec., E. I. duPont de Nemours & Co.

(s) Evan Evans, President  
Lehigh Navigation Coal Co.

(s) Richard Maize  
Secretary of Mines

(s) L. Don Leet  
Harvard University

(s) John L. Romig  
Atlas Powder Company

(s) J. H. Horlick, Jr.  
Hercules Powder Company

(s) George J. Clark  
Shen Penn Production Co.

(s) William T. Dove  
American Cyanamid Co.

(s) David W. Cosslett  
Department of Mines



DISCUSSION OF THE VALUE OF ROOF BOLTS AS COMPARED  
WITH PROPS AND TIMBER, FROM A SAFETY POINT OF VIEW,  
IN THE NORTHERN ANTHRACITE FIELD OF PENNSYLVANIA.

By

James F. Munley  
Mine Inspector - 1st Anthracite District

Daniel H. Connelly  
Mine Inspector - 8th Anthracite District

Thomas M. Beaney  
Mine Inspector - 11th Anthracite District

January 25, 1950

On November 21, 1949, we, the undersigned, were directed by the Honorable Richard Maize, Secretary of Mines, Commonwealth of Pennsylvania, to make a study of the suitability and the probable result of the application of the newly proposed "roof bolting system" in the Northern Anthracite Field. We submit herewith our findings and comments.

The Northern Anthracite Field is approximately 55 miles long and 5 miles wide at its widest point. It has an area of about 176 square miles. The coal seams lie comparatively flat in the upper Luzerne and Lackawanna County portion of the field, except along the outcrops and near local faults, where they pitch sharply. In the middle and southwesterly part of the Northern Field, the coal seams have a greater thickness and lie at depths below the surface ranging from less than 50 to more than 2,000 feet. A greater portion of the coal in this part of the field is found to pitch sharply because the anticlinals and faults are more numerous and the upthrows along the outcrop lines are more pronounced.

Briefly, the roof bolting system consists of the drilling of holes in the rock overlying the coal seam to a depth of about 6 feet and inserting therein an iron rod of the same length, having a diameter of 1 inch. The inner end of the rod is so constructed that the application of pressure expands it to the full diameter of the hole, thus securing it in place. A steel plate 8 inches by 8 inches is then bolted on the outer end of the rod, snug against the roof, thus anchoring the roof to the overlying strata. The principle of physics is mechanically sound, but the many theoretical assumptions that must be relied upon in the practical application of the device,

when used to support mine roof, make it impossible to determine, with any degree of certainty, the efficiency of such a device.

The system, although not new, has, according to press releases been introduced and advocated for general use in the Anthracite Region by the Federal Bureau of Mines.

Two installations have been completed for experimental purposes in the Northern Anthracite Field, one in Luzerne County and the other in Lackawanna County.

In the Luzerne County mine, the bolts were installed at two different locations. In one instance twelve bolts were installed between cross-timbers. The timbers, standing alone, afforded ample roof protection. In the other instance, three channel irons, serving as crossbeams, were held in place against the roof by twelve angle bolts, four bolts supporting each channel iron. Here again the bolt-supported channel irons were augmented by three sets of cross-timber.

Little, if anything, can be learned from this installation, because the cross-timbers used in conjunction with the bolts are, in themselves, sufficient to support the roof.

The installation in the Lackawanna County mine consists of 200 bolts. They were installed in a gangway that was driven during the year 1923. Approximately 23 props had been stood over the years in this gangway, not as a means of roof support, but rather to hold the rib in place. The roof in this gangway remained secure over a period of 25 years, but shortly after the installation of the bolts in 1949, a movement developed in the overlying strata. The roof rock broke around many of the bolts and in several instances the bolts were found to be bent, twisted and dislodged. In fact, the project was a complete failure. This statement should not be looked upon as meaning that the installation of the bolts was responsible for the collapse. It does mean, however, that the physical conditions encountered in this case, which are common throughout the entire Anthracite Region, were wholly responsible for the failure of the bolts.

The bolts were installed in an inactive gangway underlying, to the extent of about thirty feet (30'), an upper seam in which pillars were being

removed. Pillars were not being removed directly above the bolted gangway, but such work was in progress 600 feet laterally therefrom. The removal of these pillars resulted in the development of a squeeze in the underlying seam, fracturing the intervening rock and extending to the bolted gangway, where it rendered useless the overlying rock for anchoring purposes. After the squeeze started, props were installed to assist in the control of the roof. This measure was effective in establishing a break line and thus arresting the movement of the squeeze.

The mine inspectors in whose districts the two mines are located, refused to approve the installation of bolts except in inactive workings, unless props or timbers were used in connection with such installations. The reason for their refusal to permit the use of bolts without props or timbers was twofold - first, their lack of confidence in the practicability of the system for use in anthracite mines, and second, the law on the subject, which reads as follows:

"The mine foreman or his assistant shall visit and examine every working place in the mine every working day while the men of such place are or should be at work, and shall direct that each and every working place is properly secured by props or timber."

If it could only be said that roof bolting is inadequate when exposed to some great force of nature, such as a squeeze or crush, that alone would not be so bad, but based as it is upon so many assumptions and theories, amidst so many unfavorable, concealed conditions, its usefulness as a roof support is so uncertain that it should never be used in the Anthracite Region where human life is at stake, except in conjunction with sufficient props or timbers.

There are still other features which tend to make the roof bolting system a menace. It is rigid and does not lend itself to the cushioning warnings given by props and timber - warnings which the practical miner has relied upon since the beginning of mining.

There is scarcely any problem in the mining industry which has received more consideration than that of roof fall injuries. Men practically fitted to analyze and discuss this matter generally agree that injuries of this nature do not occur because of the absence of an efficient system of roof support. Props, timbering, lagging and forepoling have been used since the beginning of mining and have rarely, if ever, been found inefficient.

Investigation of innumerable fatalities resulting from roof falls reveals, not the need for a new system of roof support, but rather the prompt application of our present system of timbering. This can best be accomplished by proper and efficient supervision.

Therefore, when under our present system of supporting roof, with our constant urging to have props stood promptly when room is available, that the number of roof fall injuries may be reduced, we are far from being successful, what can we expect in the event the roof bolting system is universally adopted - a system which will demand of the miner a far greater sacrifice of time and human energy to install? It is our unanimous belief that should the roof bolting system develop in the Anthracite Region, its fruits will be tragic for the miner.

Much interest was unduly aroused in the Anthracite Region recently over this new method for the prevention of roof fall injuries, when from time to time someone occupying an exalted position imprudently announced a discovery which "will bring about victory over the roof fall evil." We are of the unanimous opinion that there will follow, for those who allow themselves to be deceived, only cruel disappointment.

The means by which the number of roof fall injuries can be reduced in the Anthracite mines becomes obvious after one has investigated a sufficient number of such injuries. It is found in so many cases that the miner failed to stand a prop or timber when room was available, and that the supervising official failed to see that such prop or timber was stood. This is the greatest stumbling block with which we are confronted in our endeavor to reduce the number of roof fall injuries - a stumbling block that the roof bolting system will enlarge, because of the greater amount of time and energy necessarily expended in the installation of a roof bolt, as compared with that required to stand a prop.

We are amazed that anyone enjoying security from this dreadful roof fall evil would so completely disregard the security of the miner by advocating the general use of roof bolts instead of props, timber, lagging and forepoling. We can only feel that these advocates have been misled by the extravagant claims, publicly announced, for the proposed roof bolting

system.

Our criticism is admittedly unusual and perhaps extreme, but so is the "roof bolting project" an unusual and an extreme menace, as the mining conditions in the Anthracite Region abundantly demonstrate. One need only consider that mining activities are carried on in six to twelve different coal seams, separated by rock strata of every description, varying in thickness from 10 to 250 feet. If we add to this our consideration of the anticlinals, synclinals, saddles, faults and slips in all of the coal seams where the whole mass is generally subjected to a slow constant crush, and then realize that the greater amount of the coal mined in the Anthracite Region comes from robbing sections, or sections affected by robbing, it should not be hard for the practical man to see the reason for our objection to the roof bolting system in the Anthracite Region, unless augmented by props or timber as provided by law.

The pressure of the great mass from the surface to the lowest coal seam, honeycombed as these seams are by mining, has caused innumerable fractures in the rock strata overlying the coal seams, and naturally as time goes on this pressure will become more pronounced and destructive, thus rendering the roof strata of little value for anchoring purposes.

We are in full accord with the letter written by Richard Maize, Secretary of Mines, dated October 3, 1949, in which he directed the Anthracite Mine Inspectors to notify all operators that "under no circumstances may they experiment with this method of roof control (roof bolting) in places where miners are cutting, blasting or loading coal."

Likewise, the letter from Joseph J. Walsh, Deputy Secretary of Mines, dated August 29, 1949, in which he states, " \* \* \* I feel that we ought to be on our guard against thinking that a new discovery has been found which will bring about a reduction in the number of roof fall accidents. It would be imprudent to claim that this new discovery will bring about victory over the roof fall evil. Our prime concern should be, not with this new and untried method of roof support, but rather with the prompt and practical application of the method that has stood the test of time."

In conclusion, we wish to emphasize that it is our unanimous opinion that the "roof bolting system" should never be used for the purpose

advocated, except in conjunction with sufficient props or timber.

(s) James F. Munley  
Mine Inspector - 1st Anthracite District

(s) Daniel H. Connelly  
Mine Inspector - 8th Anthracite District

(s) Thomas M. Beane  
Mine Inspector - 11th Anthracite District

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DISCUSSION OF THE VALUE OF ROOF BOLTS AS COMPARED  
WITH PROPS AND TIMBER, FROM A SAFETY POINT OF VIEW,  
IN THE EASTERN MIDDLE, WESTERN MIDDLE AND SOUTHERN  
ANTHRACITE FIELDS OF PENNSYLVANIA.

By

G. E. Smith  
Mine Inspector - 25th Anthracite District

T. A. Ryan  
Mine Inspector - 19th Anthracite District

W. J. Clements  
Mine Inspector - 17th Anthracite District

February 2, 1950

We have examined all known installations, proposed installations and roof conditions in representative mines in the area. We have discussed the matter with mining men we encountered, accumulating their opinions.

We have also taken into consideration the geologic structures of the region, methods of mining, timbering, blasting, together with the small amount of actual experience in roof bolting in the region.

Roof bolting experience being as limited as it is, a large portion of our account is based upon conditions, actual mining experience and opinion, as follows:

GEOLOGY OF THE FIELD

The Eastern Middle, Western Middle and Southern Anthracite Fields are subjected to lateral squeezing by a movement of the earth's crust, apparently from a southeasterly direction. The results of this thrust are apparent in the many synclines and anticlines throughout the region. The limbs of these synclines and anticlines are bedded on varying pitches, ranging from light to heavy pitches, some cases of overfolding, slips, underlaps, etc.

The tremendous pressures exerted upon the coal seams and the adjacent strata seriously affected the mining conditions throughout the region. Numerous slip-faults, roof bells, swells and pinches occurred, not only in the coal seams, but in the roof and floor materials.



The coal seams, under this contorting influence, were crushed, this condition ranging from solid in the Eastern Middle to slightly crushed to pulverized in the Western Middle and Southern Fields.

It follows that since the coal seams were crushed, squeezed and pinched to varying thicknesses, the surrounding strata were treated likewise. The net results are constantly changing bed thicknesses, not only in the coal, but in the rock structures. We quote instances where the dividing strata between two seams enlarge from one foot to forty feet in a lineal distance of three thousand feet along the strike.

In addition, the breaking up of the strata allowed an inflow of surface water, which has created the additional hazard of water, mud and quartz seams at unknown locations and areas.

The rock strata, while well compacted and retaining some of its inherent cohesion, has been crushed in degrees governed by the original strength of the material in the bed, the bed thickness and the location with regard to the original thrust.

The conglomerates, generally thickly bedded, show large cracks at long intervals, said cracks remaining as water seams or filled with quartz or mud deposits. In some cases a layer of sand and sand pots are found immediately overlying the seam. This is true of the Lykens Valley Coal Beds in the Southern Field.

The sandstones, bedded in varying thicknesses, are blocky, seamy, and considerably fractured. Fracture lines range from hairline cracks to large fissures, which may be filled with sand, quartz, or finely crushed coal. In the extreme Southern Field, the sandstones are often broken into small pieces, much as shale.

The slates have been damaged according to the original elasticity of the material. In spots they are almost completely crushed, offering a curly, twisted formation, having no bed strength or uniformity. In other places, the slates are bedded in thin seams, which were elastic enough to absorb the bending to which they were subjected, but which, when exposed, succumb to the internal stress and split off continuously in thin, jagged layers of many sizes and thicknesses.

The shales, where encountered, are similar in action to the slates, except in the extreme south of the region, where they have lost all trace of smooth bedding and are completely shattered.

Mining developed along the limbs of these synclines, and through and around the many faults, has necessarily been subject to increasing depth and constantly changing conditions. As additional depth is reached, increased pressures are noted in roof, pillar and floor. This is a combination of natural earth weight and gas pressure. It has been established that entire synclines have been rocked from side to side by pillar robbing on both limbs at consecutive levels. Squeezes, floor heaves and pillar failure over large areas are common, not only in robbing but in first mining. Sloughing of pillars because of roof weight, and bursting of coal from pillars because of gas pressures are not uncommon. Pressures transmitted from actively mined seams to small vein or rock entries through the intervening strata are usual.

#### MINING AND TIMBERING

The Anthracite industry, through over 100 years of effort, has developed systems of mining and timbering adapted to the geological features of the area. Aware of the economic faults of coal entries, particularly in thick seams, the trend has been to rock entries, with the only timbering in the coal seams that which is required in the actual mining of the coal, and that of short life. At present, experiment in mining entirely by remote operation from rock gangways is under study. The greater pressures encountered in the deeper mining are now making timber in the rock gangways necessary.

Roof conditions, from massive sandstone and conglomerate to finely fractured shales, are found. Pitches, in any degree from horizontal to vertical, are found. Coal seams range from two feet to over one hundred feet in thickness. Coal strength varies from hard and strong to finely pulverized and free running.

Wide work, where any length of life is contemplated, such as haulage-ways, travelingways, or airways, has been found wanting, both in safety and economy. In such excavations, a minimum width in accordance with clearance

requirements is used, thus offering less roof exposure and a smaller ultimate arch.

In chamber, breast or pillar work, where short life and maximum coal extraction is the object, timbering, width, and method are regulated by the strength of the coal seam and roof, and by the pitch. The many varied conditions have been met by as many methods, each designed to provide the best in roof control, ventilation and safety to the workmen.

A system of timbering, using wooden timber, has been devised to accompany each system of mining. Single prop, post and bar, three and four piece double sets, jugulars, coupling sets, lagging, forepoling and mudsilling are a few of the arrangements. Considerable skill and practice, but only a few simple tools are required to install this timber. All have been successful in the protection of life when used at the proper time and in sufficient quantity. Protection is afforded the workmen by support of the loose material on ribs and roof, and by the warning given in advance of any major collapse or failure. Such timber is rigid enough to provide the required strength, flexible enough to absorb slight changes which occur during the adjusting period after blasting, and yet strong enough to offer sufficient warning of major movement. Such timber is also readily replaceable.

In the areas of permanence, such as slope or shaft bottoms, where squeezes are not anticipated, steel and concrete are often used. If, however, as sometimes occurs, a squeeze affects such timbering, replacement is extremely difficult and costly.

#### BLASTING

Blasting practices in the area described do not in any way add to the security and stability of the roof.

In the mining of the various seams of coal, local conditions prevent the use of mining machines. Many attempts have been made to use cutting or shearing machines, but all have met questionable success. Coal or rock must then be blasted from the solid. The types of explosives necessary, with the quantities loaded, create heavy disturbances in the surrounding strata. The resultant shatter cracks, which may or may not be visible, but nevertheless are present, are the first step in the breakdown of the roof structure.

The rock gangways, tunnels, slopes, etc., either parallel to or across the strike, are even more subject to blast damage. With the advent of mucking machines, fragmentation became essential to success. The practice of detonating an entire timed face round at the same instant led to additional overloading, particularly in the wedge or opening cut. This combination of circumstances has resulted in far more shattering and damage to the roof arch than is normal. Additional scaling is necessary, and cross breakage through the normal bedding is evident.

#### THE PRESENT AND PROPOSED STATUS OF ROOF BOLTING

The first known application of roof bolting in its present form was found at the Hazleton Shaft Colliery of the Lehigh Valley Coal Company. This installation was made about 22 years ago. In the Third Level Wharton Vein Pumphouse, off #40 Slope, three rows of eight bolts each were installed, spaced on 3' centers along the strike and 5' centers up the pitch. The purpose was the anchorage of a 6" thick slab of sandstone to the main sandstone roof which is massively bedded. This slab had apparently been loosened from the main roof by the heat from the steam pumps. This installation was a success, although a doubt exists whether any support was necessary, or whether it would have been better to take down the slab.

Another application at this same mine was recently installed at the Fourth Level Buck Mountain overcast. The roof at this point is strong gray sandstone, bedded in layers three feet thick. The plan was to tie the layers of sandstone together, to prevent slabbing when the roof was blasted to provide headroom for the overcast. This was successful, although it is probable that more credit for the success is due to good line drilling than to the bolting.

A third application, tried for the purpose of preventing overbreakage and shattering of roof during the excavation of a skip on the Fourth Level at 440 Tunnel to provide room for a turnout met with no success. Fifty-two bolts were placed in pairs along the 12' wide tunnel before blasting off the additional 6' skip. This plan failed. The rock broke over and around the bolts, leaving them exposed for lengths of 6" to 2'. These bolts have been cut off or bent over and the turnout is being timbered with

steel crossbars on steel legs, as was originally planned.

The next application discussed is the Porter Tunnel of the Philadelphia & Reading Coal & Iron Company, in Porter Township, which was attempted and discontinued in 1949. Porter Tunnel is driven into the south slope of Big Lick Mountain, beginning in the Mauch Chunk red shale, thence through the conglomerates and the coal measures. The roof bolting attempt was made in the red shale. The tunnel was timbered through the wash and into the shale with 12" x 12" wood three and four piece sets for 480'. The management then decided to proceed without timber. After about 150' had been driven thus, the inspector, on a regular inspection, stopped work at the face, due to insecurity of the roof, and ordered the bad roof taken down or timbered.

It was decided by the management to install roof bolts. When material had been procured, bolts were installed, under the supervision of the U. S. Bureau of Mines. The development then proceeded. Your inspector observed conditions frequently, and finally, accompanied by two other mine inspectors, stopped the work. Areas considered too dangerous for workmen were ordered timbered. Steel cross timbers and lagging were installed and the tunnel is proceeding in normal fashion.

The committee feels this was a failure for the following reasons:

1. Roof bolts could not be placed within 20' of the face because the rock peeled over and around the bolts, leaving the bolt and washer hanging in the air. This was especially true when the face cut was blasted.
2. In several spots the original washers were replaced by pieces of steel rail, then later by pieces of tie as the rock continued to break around the bolt.
3. It was necessary to scale rock down between the bolts at frequent intervals.
4. The rock did "pop" around the bolts, leaving them exposed.
5. Large pieces of rock, of unknown thickness, when sounded, gave off hollow sounds, and tested loose by the vibration method, indicative of insecurity.
6. The rock had no regularity of bedding, contained water and mud seams at unknown intervals.

7. This committee found loose rock, previously bolted, which was ordered taken down at once.

8. No definite knowledge as to the security of anchorage of bolts existed.

9. The tunnel was unsafe for workmen.

During this experiment, 459 bolts from 5' to 7½' long were installed in 61½ lineal feet of tunnel. The bolts were spaced on 3' centers, lineally, and grouped 3, 4, or 5 across the roof as it was judged necessary. The bolts were anchored with a split rod and wedge, and were capped with 8" triangular plates.

At the #14 Shaft, Lansford Colliery, of the Lehigh Navigation Coal Company, a small section of roof has been bolted. On the Sixth Level, in the area within the shaft pillar, bolts 6' long have been placed on 5' centers, three to a row across the gangway roof. This Skidmore Gangway is driven for the purpose of mining the Mammoth Seam overhead, with, of course, no mining contemplated within the shaft pillar. Mining is planned by means of rock holes, drill heading in rock, etc. From the point at which the gangway leaves the shaft pillar, bolting was discontinued and conventional 3-piece sets were installed. The management is aware of the probable dangers of roof bolting where the Mammoth Seam will be robbed overhead.

The roof of the Skidmore Seam is good at this point. It is anticipated that the 15 bolts installed at this time will be successful. It must be stated that no timber other than a single prop on the hanging rib would have been installed here.

The roof consists of a strong sandstone 12" to 24" thick, then 26' to 28' of massive sandstone to the Mammoth Seam. This strong sandstone is about 300 lineal feet, and has deteriorated to a curly slate, of unknown thickness, having no solidity or bedding, which requires timber immediately upon excavating.

The management at the Philadelphia & Reading Coal & Iron Company's Locust Gap Colliery has proposed roof bolting in the Fifth Level haulageway to the new place from the West Spring section. This haulageway is composed of Gangway 253 in the Skidmore Seam and Gangway 313 in the Seven Foot Seam.

Both seams average 2' in thickness, pitching an average 40 degrees. The Bottom Split seam overlies the Skidmore at an interval of about 40' and has been robbed. The interval between the Skidmore and the Seven Foot is 20'.

The roof structures over these seams are similar, varying from a rubbery, fairly strong sandstone 12' thick, bedded in layers ranging from 6" to 4' thick, to a brittle slate, laminated in thin layers, marked by irregular fractures and fine quartz seams. The roof has been extensively damaged over most of the area, by temperature changes, and heavily in spots by an apparent transfer of pressure from the Mammoth Seam, possibly due to partially robbed and lost pillars. In a few spots the roof stands safely without timber. Throughout most of the haulageway timbering is necessary, and will, in our opinion, continue to be necessary.

The management at the Knickerbocker Mine of this same company, near Mahanoy City, had also proposed roof bolting in four gangways, as follows: seeking to eliminate timbering and cut down on the size of the opening needed. They have also used bolts at a fan installation along a rock gangway.

In the #1 Tunnel East Rock Gangway 17 bolts were installed in addition to props on the high side. Additional room has been made at this point to allow the installation of a fan. No timber had previously been used. The rock was strong, but the bolts were placed for additional security. No evidence exists that they were needed, or that they assist in roof support in any manner.

In the Buck Slope, 2½ Level, E. Rock Gangway off #21 Tunnel, bolting is proposed. The entry is excavated through sandstone with heavy quartz seams, about 35' under the bottom split seam, which averages 7' thick. Three piece timber sets are placed on the advance on 6' to 8' centers. The rock is hard but brittle and due to the brittleness and quartz seams is unpredictable and subject to fracture.

It is possible that numerous bolts would provide safety on the advance and eliminate the need for timbering. However, when the coal overhead is robbed, as is customary, the rock gangway receives damaging pressure,



which causes roof and rib fracturing, as is apparent from #1 to #9 Rock Holes, where robbing has been completed.

In the East Rock Gangway,  $2\frac{1}{2}$  Level, 30' under the Buck Mountain Seam, which is 12' thick, the gangway is driven through good strong sandstone. Three piece sets are placed on 8' centers, and over a long area show no sign of damage by rock failure, although the coal overlying has been robbed. At only a few spots were small pieces of loose rock detected. It is conceded that under such a condition roof bolting might be a success.

In the Yatesville Basin Slope, #25 Tunnel E. & W. Rock Gangways under the Buck Mountain Seam, bolting is also proposed. These gangways are driven in seamy, blocky slate of brittle texture, bedded in small layers, and are timbered throughout. The slate offers neither assurance of secure anchorage nor beam strength which would permit the use of bolts. Further complications are added by the occurrence of a seam of coal 12' above the high rib of the gangway.

The Locust Coal Company had expressed an interest in roof bolting. At the time of our visit, the mine superintendent informed us that they were no longer interested. We did, however, examine the Sixth Level of the Packer #2 Mine, where the strata are cut across the basin, in order to get a picture of the roof structures in this valley.

The roof overlying the coal seams, generally thick beds of finely laminated slate, brittle and broken, offer no promise of success or safety for bolting. Above these slates is bedded soft sandstone. The rock gangways, driven in the sandstones, must also be timbered throughout.

The security of the roof is also impaired by pressures due to depth below the surface, inherent gas pressures which occur in the rock as well as in the coal, pressures due to robbing and the general instability of this whole basin, which has been rocked from side to side throughout the years.

In order to complete the study, we selected the mine of the Phoenix Coal Company, at Phoenix Park, as a sample of the Southern Field. The management stated that they are not interested in roof bolting, but are interested in roof control by proper mining methods, widths and timbering.

The seams of coal at this mine, in which all entry work is done in

coal, are highly gaseous, and are subjected to intense pressures, which are apparent in roof breakage, rib sloughing and floor heaving. These pressures are apparently the result of gas and depth pressures. The roof structures are generally 3' to 10' of curly brittle slate, in which roof bolts would have no chance of success whatsoever. In only one, the Middle Split, the roof is of fair sandstone. In all, timber and lagging are required to confine the ribs.

#### ROOF BOLTING THEORY

The theory of roof bolting, as expounded by representatives of the U. S. Bureau of Mines, is based upon the strength of a beam of laminated construction, tied together with bolts, or bolts with light crossbars suspended. This beam, immediately over the excavation, is expected to support the loose material up to the natural arch, above which the pressures are expected to be transmitted to the rib. A beam of this type, to have strength, must have continuity in all its members.

A second theory, advanced by some of the mining men, who have expressed a desire to use roof bolts, offers the idea of anchoring layers of fragile material to more massively bedded material above. The plan has been suggested for thin seam gangways, or rock gangways driven under the seam to be mined.

#### FINDINGS

Our observations and study of this matter lead us to believe that the following statements are true:

1. The theory of beam strength is without foundation in this region. The original damage to the geological structure, damage accruing from blasting, squeezes, gas and depth pressures, together with the shifting of strata caused by pillar robbing, distinctly removes such a probability. Continuity of structure does not exist. In addition, we find that knowledge is not available as to the strength of such a beam, the weight of the material to be supported up to the natural arch, or the size of the natural arch in the varied materials. We are aware that in some cases no natural arch exists, since breaks extending to the surface are common.

2. Positive knowledge of the firm bolting of such a beam is impossible, nor do we believe that such a beam can be constructed where one side (the upper) of the beam is not accessible.

3. The plan of anchoring layers of fragile rock or slate to other more heavily bedded layers is subject to many opportunities of failure. The anchorage cannot be established, except by constant mechanical testing. Even if this were done, failure of anchorage due to mud seams, cracks, roof faults or squeezes could occur between tests. We call attention to the fact that we are in the midst of changing conditions in all our work.

4. No provision has been made to secure ribs, either in pitching or flat work. In pitching seams, ribs must be securely held in place, in order to protect means of ingress or egress, ventilation, etc. In spite of or during regular timbering, men have lost their lives because of rib runaways. In addition, in deep and gaseous mines, regardless of pitch, rib pressures are great, and ribs, if left unconfined, will slough away or even bump off with violence. It is understood that roof arch, where it exists, is based upon width of opening. If ribs fail, increasing width, the arch increases proportionately, with consequently increasing load upon timbering. We are certain that bolting will not confine coal ribs or coal roof.

5. The comparative work required, plus the additional equipment, time, etc., in placing roof bolts, as compared to conventional timbering, leads us to believe that we would have less roof control efficiency at the working face. The necessity for training a great number of men in new techniques, particularly in testing and observation, would be conducive to lesser safety than our present instantly visible timbering failures.

6. The additional drilling required, either in roof rock or coal, would increase the exposure to dusts, producing respiratory diseases, particularly in pitching workings, where water cannot easily be conducted to the face.

7. From the meager figures now available, we see no economic gain by converting to bolting. Costs of material, installation of airlines, water lines, equipment, drilling time, etc., are unavailable to us.

8. We believe that the only feasible application in this area lies in the use of bolts, in addition to all of the regular timber, in heavy pitch, full gob breast work. It is possible that bolts placed in the roof over the

gob may temporarily support loose flakes of rock until the gob coal has been loaded out. If so, a cleaner product could be loaded at the battery with less blasting than is normally required.

9. Such bolts, with almost the entire bolt unavailable for inspection, are subject to rust, especially in wet conditions. No knowledge of the extent of such deterioration would be possible until failure.

#### Conclusion

We conclude that in the region described herein, no additional safety can be achieved by the substitution of roof bolts for the present standard timbering. We see no objection to the use of bolts where no timber is normally used, or in addition to the regular timbering, provided that the regular timbering standard is not relaxed as the result of bolting.

We also see no objection to the testing of such a method, if human life is not endangered in such test. We point out, however, that in such changing conditions as exist, a test in one area cannot be applied universally.

We also believe that if the time and effort now being spent to promote roof bolting were spent to further the efficiency of application of our present time-tested methods, additional safety would accrue. Accidents due to timber failure are the rarity, those due to lack of timbering are the rule.

We wish to express our appreciation to our Department Heads for the privilege of serving on this committee, and for their advice and guidance.

We acknowledge the courtesy of the various coal company officials with whom we came in contact during our investigation.

Very truly yours,

(s) G. E. Smith  
\_\_\_\_\_  
Mine Inspector - 25th Anthracite District

(s) T. A. Ryan  
\_\_\_\_\_  
Mine Inspector - 19th Anthracite District

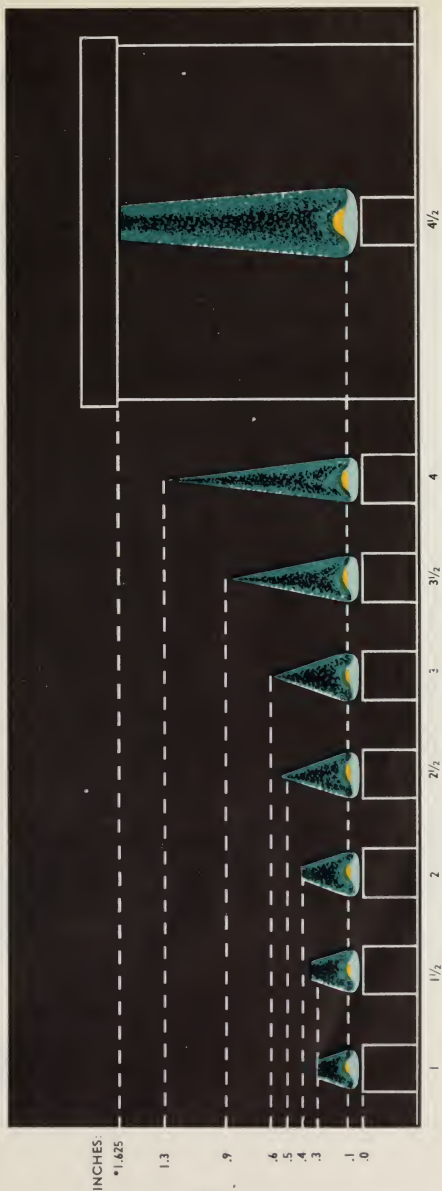
(s) W. J. Clements  
\_\_\_\_\_  
Mine Inspector - 17th Anthracite District

Per

REPORT COVERING MINES EMPLOYING FEWER THAN  
FIVE PERSONS, BUT NOT FEWER THAN TWO

Dist- rict	Number of mines	Number of employes all mines	Aggregate number of man-days worked	Total production all mines	Fatal acci- dents	Non- fatal acci- dents	Production per fatal accident
1	17	49	3,577	11,875	-	-	-
2	6	17	1,921	5,948	-	1	-
3	3	11	1,705	3,783	-	1	-
5	8	21	2,217	5,956	-	-	-
6	8	28	4,760	9,825	-	-	-
7	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-
15	2	4	404	1,226	-	-	-
16	4	10	1,240	3,324	-	-	-
17	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-
19	79	248	53,320	127,290	1	10	127,290
20	43	147	27,636	65,571	-	13	-
21	75	255	53,040	159,120	1	10	159,120
22	109	396	89,100	150,708	1	15	150,708
23	93	323	51,680	165,174	-	5	-
24	162	514	88,760	234,387	2	5	117,193
25	199	782	124,478	371,033	1	15	371,033
26	89	232	48,462	78,632	-	2	-
27	173	585	97,885	291,784	-	7	-
1,070	3,622	650,185	1,685,636	6	84	280,939	

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF MINES  
HARRISBURG



Percentage of Gas.  
Testing Flame 1/10 Inch High.  
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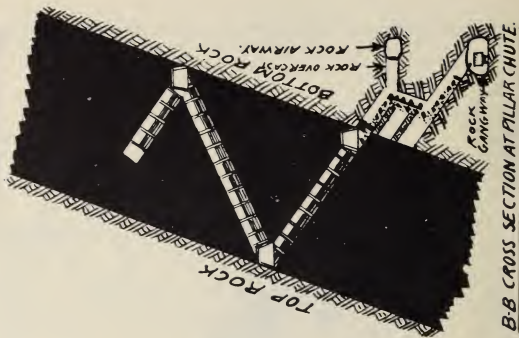
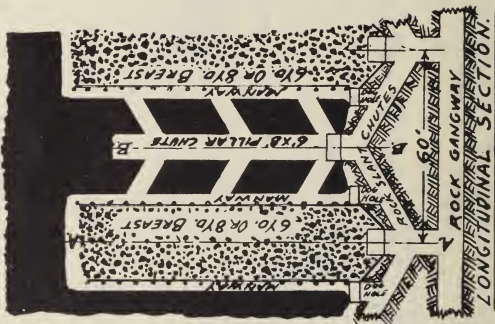
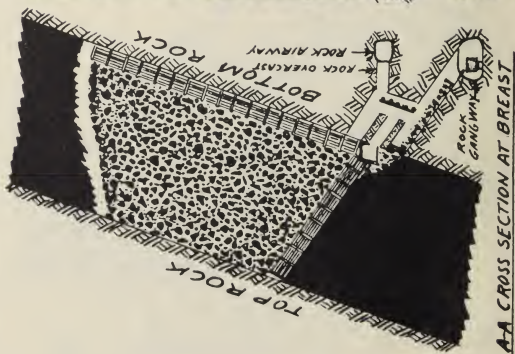
RECOMMENDED FOR USE IN ANTHRACITE MINES

This danger sign, having overall dimensions of 24" by 10", with an ellipse 14" by 10" in the center, has been recommended by the Secretary of Mines for use in the Bituminous coal mines of Pennsylvania. The color within the ellipse is red, and the diagonal spaces outside the ellipse are alternately colored white and black. The width of each diagonal space is 1 $\frac{1}{2}$ ".

Richard Maize  
Secretary of Mines



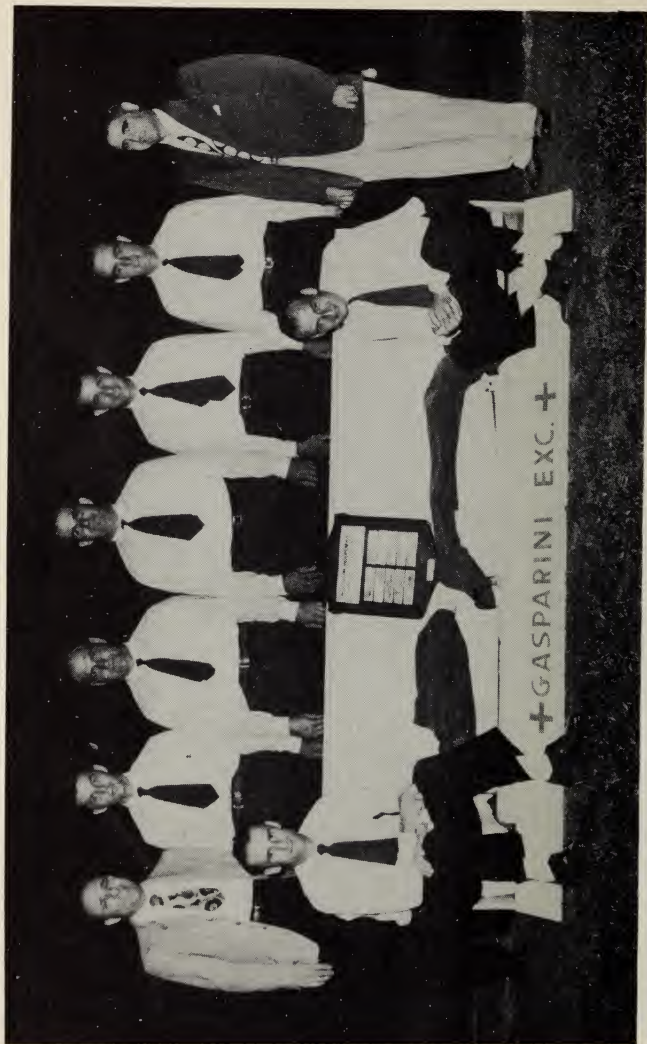






A Group of Mine Workers About to Enter the Mine





First Aid Team of the Gasparini Excavating Company, winners of the 1949 Contest. Reading from left to right:  
 Standing: Nicholas Rock, Instructor, Edward Grestovic, Joseph Scagliotti, Leo Turissini, Joseph  
 DeCosimo, Albert Baldan, Gene Gasparini, Operator. Seated: Stanley Grzenda & Elio Brunori.



MINE VENTILATING FAN





ANTHRACITE BREAKER

# I N D E X

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Blower

